



A Report Prepared For:

WHPV Tanklage SPE LLC  
c/o Windy Hill Property Ventures  
530 Emerson Street, Suite 150  
Palo Alto, California 94301

Attention: Mr. Mike Field

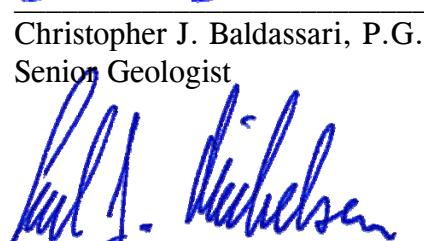
**2015 ANNUAL REPORT OF  
GROUNDWATER MONITORING,  
CAP INSPECTIONS, AND  
MAINTENANCE  
837 INDUSTRIAL ROAD  
SAN CARLOS, CALIFORNIA**

**JANUARY 4, 2016**

By:



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**1409.002.02.003**

## TABLE OF CONTENTS

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LIST OF TABLES .....	iii
LIST OF ILLUSTRATIONS .....	iii
1.0 INTRODUCTION AND BACKGROUND.....	1
2.0 CAP INSPECTIONS .....	2
3.0 MAINTENANCE ACTIVITIES .....	2
4.0 SEMI-ANNUAL GROUNDWATER MONITORING .....	3
4.1 Water-level Measurement Procedures – Second and Fourth Quarter 2015 .....	3
4.2 Groundwater Sampling Protocol – Second and Fourth Quarter 2015 .....	3
4.3 Analytical Program – Second and Fourth Quarter 2015 .....	4
4.4 Analytical Results .....	4
4.4.1 Second Quarter 2015 Results .....	5
4.4.2 Fourth Quarter 2015 Results.....	5
3.3 Handling, Storage, and Disposal of Investigation-Derived Wastes (IDW).....	5
5.0 CLOSING AND PLANNED FUTURE ACTIVITIES .....	6
6.0 REFERENCES .....	6

### TABLE

### ILLUSTRATIONS

APPENDICES	A – SUMP CHARACTERIZATION SAMPLE - LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION
	B – UNIFORM HAZARDOUS WASTE MANIFEST
	C – CONFLUENCE ENVIRONMENTAL FIELD SHEETS
	D – LABORATORY ANALYTICAL REPORTS AND CHAIN-OF- CUSTODY DOCUMENTATION - SECOND AND FOURTH QUARTER 2015 GROUNDWATER MONITORING EVENTS
	E - HISTORICAL GROUNDWATER MONITORING RESULTS
	F - WASTE DISPOSAL DOCUMENTATION

### DISTRIBUTION

## LIST OF TABLES

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Table 1	Summary of Detected Analytical Results for Groundwater – PCBs, Petroleum Hydrocarbons, VOCs, and SVOCs
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## LIST OF ILLUSTRATIONS

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Plate 1	Site Location
Plate 2	Site Plan and Vicinity
Plate 3	Detailed Site Plan
Plate 4	Diagram of Trench and Sump for Tar-Like Substance Collection
Plates 5-6	Site Photographs – April 20, 2015 (Second Quarter 2015 Cap Inspection)
Plates 7-8	Site Photographs – August 6, 2015 (Third Quarter 2015 Cap Inspection)
Plates 9-11	Site Photographs – November 11, 2015 (Fourth Quarter 2015 Cap Inspection)

## 1.0 INTRODUCTION AND BACKGROUND

On behalf of WHPV Tanklage SPE, LLC (WHPV), PES Environmental Inc. (PES) presents this report summarizing activities performed during 2015, including: (1) quarterly cap inspections; (2) site maintenance performed in accordance with the Operations and Maintenance (O&M) Plan (PES, 2015); and (3) results of semi-annual groundwater monitoring performed for the commercial property at 837 Industrial Road in San Carlos, California (site; Plates 1 and 2). The building at 837 Industrial Road is divided into eight (8) Suites (A-H), leased to several commercial businesses. A history of environmental sampling at the subject property is provided in the Removal Action Work Plan (RAW; GEI, 2014).

In early 2008, a black, viscous, tar-like material was observed emanating from beneath a concrete floor slab within Suite D of the 837 Industrial Road building. Samples of the material were submitted to an analytical laboratory. The analytical results included detections of the following constituents:

- Acetone at up to 170 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ );
- Polycyclic aromatic hydrocarbons (PAHs) including phenanthrene (up to 22,000  $\mu\text{g}/\text{kg}$ ), chrysene (up to 13,000  $\mu\text{g}/\text{kg}$ ), benzo [g,h,i] perylene (up to 15,000  $\mu\text{g}/\text{kg}$ ), fluoranthene (up to 13,000  $\mu\text{g}/\text{kg}$ ), and pyrene (up to 9,500  $\mu\text{g}/\text{kg}$ );
- Diesel-range organics (DROs) at up to 90,000 milligrams per kilogram (mg/kg);
- Motor oil-range organics (MRO) at up to 220,000 mg/kg; and
- Polychlorinated biphenyls (PCBs), at up to 13,000  $\mu\text{g}/\text{kg}$ .

Chromium, nickel, zinc and lead were also detected. The material was also found to have low pH. Based on analytical characteristics, the tar-like substance was inferred to be an acid tar, a byproduct of an acid-clay oil recycling/refining process which was conducted for a number of years at a nearby property (e.g., former oil recycling facilities at 977 Bransten Road) (GEI, 2014).

To manage ongoing subsurface intrusion concerns, an intercept trench and recovery sump system was installed in Suite D, as well in a portion of Suites C and E, by the previous ownership (Tanklage Family Partnership) in 2008. Plates 3 and 4 show the location and diagram of the trench and sump system. The trench and sump system are components of the remedy presented in the RAW (GEI, 2014) approved by the State Department of Toxic Substances Control (DTSC) in October 2014 (DTSC, 2014). Details of the system are provided on Plate 4.

Ownership of the property was transferred to WHPV in February 2015, and WHPV has assumed responsibility for implementing the O&M Plan at the site. The monitoring, inspection, and maintenance activities reported herein were performed in accordance with the draft February 15, 2015 O&M Plan submitted on behalf of WHPV to DTSC (PES, 2015).

The following sections of this report present a description and results of the scope of work identified in the O&M Plan performed during 2015. Implementation of the O&M Plan commenced during Second Quarter 2015.

## **2.0 CAP INSPECTIONS**

During 2015, quarterly inspections were performed on the following dates:

- April 20, 2015 (Second Quarter 2015 Cap Inspection);
- August 6, 2015 (Third Quarter 2015 Cap Inspection); and
- November 11, 2015 (Fourth Quarter 2015 Cap Inspection).

Photos of representative site features observed during the 2015 cap inspections are shown on Plates 5 through 11. All accessible areas within Suites C, D, and E at the 837 Industrial Road building were inspected at each quarterly event. No significant new cracks or staining were identified in the concrete slab within Suites C, D, or E.

The recovery sump and access ports (permitting assessment of conditions within the recovery trench) were inspected. The depth below grade (i.e., the top of the concrete slab) to the tar-like material within the recovery sump varied from 17-inches on April 20, 2015, to 20-inches below grade on August 6, 2015 and November 11, 2015 (i.e., after removal of tar-like materials from the recovery sump, discussed in Section 3.0). A sample of the sump contents (Sample ID SUMP-42015) was collected for waste characterization purposes on April 20, 2015 and submitted for laboratory analysis. A copy of the laboratory analytical report and chain-of-custody documentation for the sump characterization sample is presented in Appendix A.

The exterior asphalt cap was observed to be in good condition during the 2015 inspections. No significant cracks or buckling of the asphalt cap was observed that could indicate the presence of the tar-like substance. Additionally, the quarterly inspections revealed no indication of staining or surfacing of the tar-like substance in vicinity landscaped areas.

## **3.0 MAINTENANCE ACTIVITIES**

Maintenance activities specified by the O&M Plan and performed during 2015 included: (1) removal and disposal of the tar-like substance during the Second Quarter; and (2) clearing a concrete obstruction from an access port to the trench in Suite D.

PES subcontracted with Environmental Restoration Services (ERS) of Menlo Park, California to remove accumulated tar-like materials from the recovery sump. On May 29, 2015, ERS used disposable equipment to transfer material from the sump to a poly-lined DOT-approved 55-gallon steel drum. Based on the characteristics of the tar-like material sample, the waste (along with the disposable equipment utilized to transfer the materials) was transported and disposed off-site at the Clean Harbors Aragonite facility in Grantsville, Utah as hazardous waste. A copy of the Uniform Hazardous Waste Manifest is presented in Appendix B.

Subsequent measurements of the depth below grade to the tar-like material within the recovery sump and trench (i.e., during the Third and Fourth Quarter 2015 cap inspection events, as noted above) indicate: (1) the tar-like material did not appreciably accumulate since the tar-like materials were removed from the recovery sump in May 2015 and subsequently disposed; and (2) the annual removal of the accumulated material appears to be sufficient to properly manage the accumulation of materials in the sump.

During the Second Quarter, an approximately 2-inch thick concrete obstruction was removed from directly beneath the access plate to an observation port in Suite D. The concrete was likely inadvertently introduced as overspill during concrete work associated with the trench and access port construction activities in 2008.

## **4.0 SEMI-ANNUAL GROUNDWATER MONITORING**

In accordance with the RAW and O&M Plan, monitoring well MW-1 was gauged and sampled during the semi-annual monitoring events performed in the Second and Fourth Quarter 2015.

Confluence Environmental, Inc. (Confluence), of Sacramento, California performed the gauging and sampling activities. Confluence's data sheets from the sampling events are included in Appendix C.

### **4.1 Water-level Measurement Procedures – Second and Fourth Quarter 2015**

Prior to measurement, the water-level indicator was cleaned with a mild detergent solution and rinsed with de-ionized water. Prior to well gauging, the well box cover was removed and the well locking cap was removed to allow pressure equilibration in the well. The groundwater level in the monitoring well was measured to a precision of 0.01-foot using an electronic water-level indicator probe, and recorded by Confluence on the groundwater sampling field sheets, presented in Appendix C.

### **4.2 Groundwater Sampling Protocol – Second and Fourth Quarter 2015**

Prior to the collection of groundwater samples during the Second and Fourth Quarter 2015 sampling events, water in the well casing was purged using a low-flow QED bladder pump. A new pump bladder, grab plate, and pump tubing were used, and the submersible pump housing was triple-rinsed with a Liqui-Nox® (or equivalent) solution prior to purging.

Well MW-1 was purged following U.S. Environmental Protection Agency (EPA) Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures (Puls and Barcelona, 1996), and at rates no greater than 400 milliliters per minute until water quality parameters stabilized. Water quality parameters of the purge water including temperature, pH, specific conductance, dissolved oxygen, oxidation reduction potential, and turbidity were monitored periodically and recorded by Confluence staff on the Groundwater Sampling Forms.

Following well purging, groundwater samples were collected at low flow rates to ensure zero head space in the samples collected for VOC analysis using new polyethylene tubing. As noted in the Final RAW, collection of duplicate samples for QA/QC purposes is not required.

The groundwater samples were placed in laboratory provided sample containers. The sample bottles were labeled, packaged, and stored in a chilled, thermally insulated cooler until delivery to TestAmerica Laboratories (TestAmerica), a State-certified laboratory located in Pleasanton, California. Each sample was assigned a sample number and logged on a Chain-of-Custody (COC) Record. The COC Record accompanied each sample shipment to the laboratory to document sample possession from the time of collection.

The Confluence data sheets from each of the semi-annual sampling events are included in Appendix C.

#### **4.3 Analytical Program – Second and Fourth Quarter 2015**

All groundwater samples collected during the monitoring event were analyzed by TestAmerica, for the following analyses:

- VOCs by U.S. EPA Test Method 8260B;
- Total petroleum hydrocarbons (TPH) quantified as gasoline (TPHg) by U.S. EPA Test Method 8260B;
- TPH quantified as diesel (TPHd) and motor oil (TPHmo) by U.S. EPA Test Method 8015M with silica gel cleanup;
- PAHs by U.S. EPA Test Method 8270C; and
- PCBs by U.S. EPA Test Method 8082A.

#### **4.4 Analytical Results**

Analytical results from groundwater samples collected on May 15 (Second Quarter 2015) and November 19, 2015 (Fourth Quarter 2015) are presented in Table 1. The laboratory reports and chain of custody records are provided in Appendix D. A summary of historical laboratory analytical results for detected compounds in groundwater at MW-1 is presented in Appendix E.

#### 4.4.1 Second Quarter 2015 Results

A summary of laboratory analytical results for detected compounds in groundwater is presented in Table 1.

Constituents of concern at the subject property (petroleum hydrocarbons, SVOCs, and PCBs) were not detected at or above the laboratory reporting limits in the Second Quarter 2015 groundwater samples and, consistent with prior monitoring events, further indicates that the compounds identified in the tar-like substance are relatively immobile and do not appear to have significantly impacted groundwater directly downgradient of the source area at the 837 Industrial Road site.

As shown in Table 1, several VOCs were detected in the groundwater sample collected from MW-1<sup>1</sup>. For chemicals with corresponding California Maximum Contaminant Levels (MCLs), the compounds tetrachloroethylene (PCE), trichloroethylene (TCE), vinyl chloride (VC), carbon tetrachloride, chloroform, cis-1,1-dichloroethene (cis-1,1-DCE), and 1,2-dichloroethane (1,2-DCA), were detected during the Second Quarter 2015 sampling event above their respective MCLs for drinking water.

The presence of VOCs in groundwater represented by MW-1 has been previously identified as due to an off-site upgradient source or sources of VOCs, as there is no evidence of a significant VOC release on the subject property (GEI, 2014).

#### 4.4.2 Fourth Quarter 2015 Results

Constituents of concern at the subject property (TPHg, TPHd, TPHmo, SVOCs and PCBs) were not detected at or above the laboratory reporting limits in the Fourth Quarter 2015 groundwater samples, consistent with prior monitoring events.

Several VOCs were detected in the groundwater sample from MW-1 at concentrations of generally similar magnitude compared to the Second Quarter 2015 results. The compounds PCE, TCE, carbon tetrachloride, chloroform, and 1,2-DCA were detected during the Fourth Quarter 2015 sampling event above their respective MCLs for drinking water.

### **3.3 Handling, Storage, and Disposal of Investigation-Derived Wastes (IDW)**

IDW generated during the Second and Fourth Quarter 2015 consisted of decontamination rinsate and purge water generated during the subject event groundwater sampling activities. The IDW was disposed off-Site by Confluence at InStrat, Inc. of Rio Vista, California, a nonhazardous liquid waste treatment facility. Pertinent IDW Waste manifests for the purged groundwater and rinsate generated during the Second Quarter 2014 sampling activities is presented in Appendix F; a copy of the manifest for Fourth Quarter 2015 is not available and will be included in future submittals.

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<sup>1</sup> For comparison purposes, multiple regulatory screening levels are presented.

## 5.0 CLOSING AND PLANNED FUTURE ACTIVITIES

The 2015 O&M activities identified in the RAW and O&M Plan were successfully completed. In accordance with the RAW and the O&M Plan:

- The next visual inspection of the cap is scheduled for First Quarter 2016;
- The next annual maintenance event for the recovery sump is scheduled for Second Quarter 2016; and
- The next groundwater monitoring event for MW-1, currently scheduled to be monitored on a semi-annual basis, is Second Quarter 2016.

## 6.0 REFERENCES

California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), 2014. *Approval Letter for Final Removal Action Workplan, 837 Industrial Road, San Carlos, California.* October 29.

Green Environment Incorporated (GEI), 2011. *Expanded Site Investigation 837 Industrial Road, San Carlos, CA.* March 2.

GEI, 2012. *Revised Groundwater Monitoring Well Installation Work Plan, 837 Industrial Road, Tanklage Square, San Carlos, California.* January 20.

GEI, 2014. *Final Removal Action Workplan, 837 Industrial Road, San Carlos, CA.* October 24.

PES Environmental, Inc., 2015. *Draft Operation and Maintenance Plan, 837 Industrial Road, San Carlos, California.* February 13.

Puls, R.W. and M.J. Barcelona, 1996. *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures*, U.S. EPA Superfund Technology Support Center for Ground Water, Technology Innovation Office, Office of Solid Waste and Emergency Response, Washington, D.C. EPA/540/S-95/504, April.

**TABLE**

**Table 1**  
**Summary of Detected Analytical Results for Groundwater - PCBs, Petroleum Hydrocarbons, VOCs, and SVOCs**  
**837 Industrial Road**  
**San Carlos, California**

Sample Location	Date Collected	PCBs (µg/L)	Total Petroleum Hydrocarbons						Volatile Organic Compounds									SVOCs (µg/L)	
			TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	MTBE (µg/L)	CCl4 (µg/L)	CHCl3 (µg/L)	1,1-DCA (µg/L)	1,2-DCA (µg/L)	1,1-DCE (µg/L)	cis-1,1-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	CFC-11 (µg/L)	CFC-113 (µg/L)	VC (µg/L)		
MW-1	5/15/15	<0.56	<500	<50	<100	1.1	4.6	12	0.73	16	1.7	6.8	280	59	21	25	3.7	All ND	
	11/19/15	<0.56	<250	<57	<110	<2.5	2.8	9.6	<2.5	13	<2.5	3.5	120	26	8.9	9	<2.5	All ND	
<b>Environmental Risk Screening Levels (ESLs)<sup>(1)</sup></b>																			
Table F-1a, Drinking Water ESL			0.014	100	100	100	5	1	80	5	1	6	6	5	5.0	NE	NE	0.5	Varies
Table E-1, Vapor Intrusion ESL			NE	NE	NE	NE	100,000	48	1,700	NE	1,000	130,000	26,000	640	1300	NE	NE	18	Varies
<b>Maximum Contaminant Levels (MCLs)<sup>(2)</sup></b>																			
CA Primary MCLs for Drinking Water			0.5	NE	NE	NE	13	0.5	NE	5	0.5	6	6	5	5	150	1,200	0.5	Varies
USEPA MCLs for Drinking Water			0.5	NE	NE	NE	NE	NE	NE	NE	5	7	70	5	5	NE	NE	0.2	Varies
<b>Regional Screening Levels (RSLs)<sup>(3)</sup></b>																			
USEPA Region 9 RSLs for Tap Water			Varies	NE	NE	NE	12	0.39	0.19	2.4	0.15	260	28	9.7	0.44	1,100	53,000	0.15	Varies

**Abbreviations and Explanations:**

ug/L: Micrograms per liter

&lt;100 or ND(0.56): Not detected at or below laboratory reporting limit

NA: Not Analyzed

NE: Not established

ESL: Environmental Screening Levels

Detections are shown in bold.

Detections above one or more of the listed Screening Levels are shaded.

PCBs: Polychlorinated Biphenyls by U.S. EPA Method 8082

TPH: Total Petroleum Hydrocarbons by EPA Method 8015B

TPHg: Gasoline range organics (C5-C12)

TPHd: Diesel range organics (C10-C28)

TPHmo: Motor oil range organics (C10-C28)

VOC: Volatile organics compound by EPA Method 8260B

SVOC: Semi-volatile organic compounds by EPA Method 8270C

MTBE: Methyl-tert-butyl ether

CCl4: Carbon Tetrachloride

CHCl3: Chloroform

CHCl3: Chloroform

1,1-DCA: 1,1-Dichloroethane

1,2-DCA: 1,2-Dichloroethane

1,1-DCE: 1,2-Dichloroethene

cis-1,1-DCE: cis-1,1-Dichloroethylene

PCE: Tetrachloroethene

TCE: Trichloroethene

CFC-11 = Trichlorofluoromethane

CFC-113 = 1,1,2-Trichloro-1,2,2trifluoroethane

VC = Vinyl Chloride

**Footnotes:**

(1) Environmental Screening Levels (ESLs), San Francisco Bay Region, Regional Water Quality Control Board (RWQCB-SF): "Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater", December 2013.

Table F-1a ESLs correspond to groundwater where groundwater is a current or potential source of drinking water.

Table E-1 ESLs correspond to groundwater for Evaluation of Potential Vapor Intrusion, All Sand, Commercial/Industrial Land Use, Table E-1.

(2) Primary Maximum Contaminant Levels (MCLs) for Drinking Water per California Code of Regulations (CCR), Title 22 Chapter 15, Article 5, Section 64444.

(3) Regional Screening Levels (MCLs) Tapwater Supporting Table published by the Region 9, United States Environmental Protection Agency (USEPA, November 2015).

## **ILLUSTRATIONS**



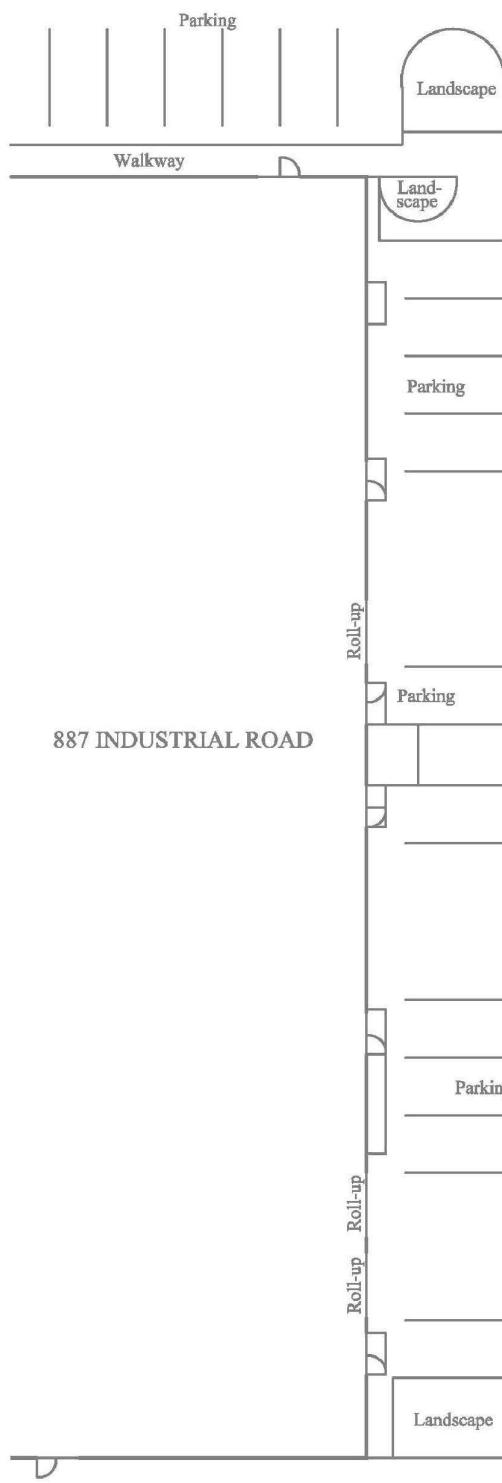
**PES Environmental, Inc.**  
Engineering & Environmental Services

**Site Location**  
2015 Annual Report  
837 Industrial Road  
San Carlos, California

PLATE

**1**

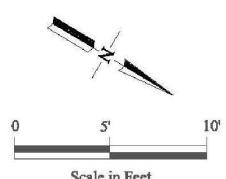
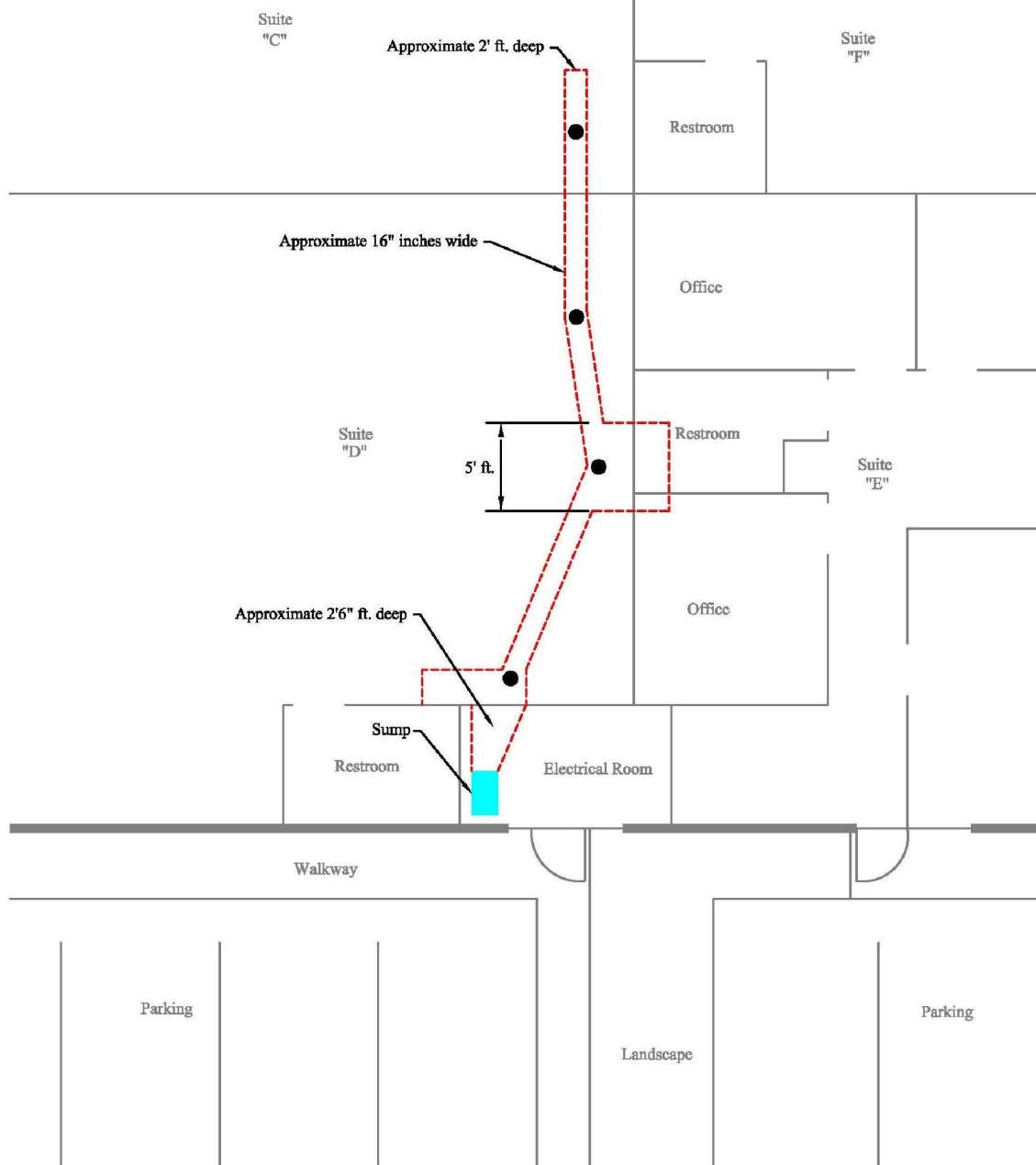




Reference: Green Environment, Inc Final Remedial Action Workplan, September 13, 2013

### Explanation

- Metal access plate to trench
- - - Concrete surface trench
- Concrete sump box



Reference: Green Environment, Inc Final Remedial Action Workplan, September 13, 2013



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**Diagram of Trench and Sump for Tar-Like Substance Collection**  
2015 Annual Report  
837 Industrial Road  
San Carlos, California

PLATE

**4**

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DRAWING NUMBER

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Photo 1.  
View of recovery sump in electrical room of 837 Industrial Road.  
Photo taken April 20, 2015.

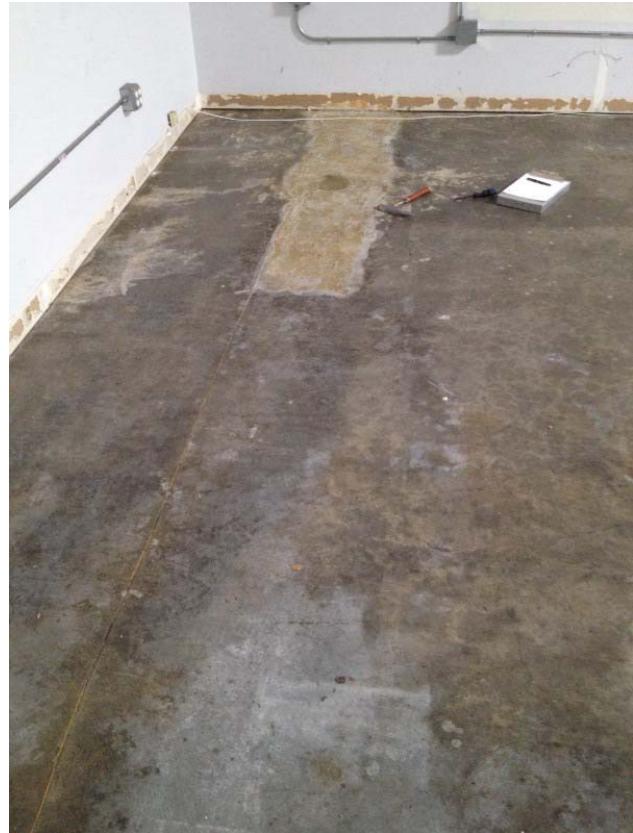


Photo 2.  
View of collection trench and access ports in Suite C of  
837 Industrial Road. Photo taken April 20, 2015.



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**Site Photographs**  
2015 Annual Report  
837 Industrial Road  
San Carlos, California

PLATE

**5**



Photo 1.  
View of exterior of 837 Industrial Road. Photo taken April 20, 2015.



Photo 2.  
View of collection trench and access ports in Suite D of  
837 Industrial Road. Photo taken April 20, 2015.



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**Site Photographs**  
2015 Annual Report  
837 Industrial Road  
San Carlos, California

PLATE

**6**

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**CJB**

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Photo 1.  
View of recovery sump in electrical room of 837 Industrial Road. Photo taken August 6, 2015.



Photo 2.  
View of bathroom floor of Suite D. Photo taken August 6, 2015.



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**Site Photographs**  
2015 Annual Report  
837 Industrial Road  
San Carlos, California

PLATE

**7**

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**CJB**

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1/16

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Photo 1.  
View of access port to collection trench located in Suite D. Photo taken  
August 6, 2015.



Photo 2.  
View of the bathroom floor in Suite F. Photo taken August 6, 2015.



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**Site Photographs**  
2015 Annual Report  
837 Industrial Road  
San Carlos, California

PLATE

**8**

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Photo 1.  
View of collection trench and access ports in Suite D of  
837 Industrial Road. Photo taken on November 11, 2015.



Photo 2.  
View through access port in Suite D of 837 Industrial Road  
of tar-like material in collection trench. Photo taken on  
November 11, 2015.



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**Site Photographs**  
2015 Annual Report  
837 Industrial Road  
San Carlos, California

PLATE

**9**

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Photo 1.  
View of collection trench and access ports in Suite C of 837 Industrial Road.  
Photo taken on November 11, 2015.



Photo 2.  
View of recovery sump in electrical room of 837 Industrial Road. Photo  
taken on November 11, 2015.



**PES Environmental, Inc.**  
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**Site Photographs**  
2015 Annual Report  
837 Industrial Road  
San Carlos, California

PLATE  
**10**



Photo 1.  
View of bathroom in Suite D of 837 Industrial Road. Photo taken on  
November 11, 2015.



Photo 2.  
View of parking lot behind northeastern side of 837 Industrial Road;  
access door to electrical room is visible on lefthand side of photo.  
Photo taken on November 11, 2015.



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Engineering & Environmental Services

**Site Photographs**  
2015 Annual Report  
837 Industrial Road  
San Carlos, California

PLATE

**11**

## APPENDIX A

### SUMP CHARACTERIZATION SAMPLE - LABORATORY ANALYTICAL REPORT

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-64297-1

Client Project/Site: 837 Industrial Road

For:

PES Environmental, Inc.

1682 Novato Boulevard

Suite 100

Novato, California 94947-7021

Attn: Mr. Chris Baldassari

---

Authorized for release by:

4/29/2015 2:46:51 PM

Afsaneh Salimpour, Senior Project Manager

(925)484-1919

[afsaneh.salimpour@testamericainc.com](mailto:afsaneh.salimpour@testamericainc.com)

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

# Table of Contents

Cover Page .....	1
Table of Contents .....	2
Definitions/Glossary .....	3
Case Narrative .....	4
Detection Summary .....	5
Client Sample Results .....	6
Surrogate Summary .....	14
QC Sample Results .....	16
QC Association Summary .....	27
Lab Chronicle .....	30
Certification Summary .....	31
Method Summary .....	32
Sample Summary .....	33
Chain of Custody .....	34
Receipt Checklists .....	35

## Definitions/Glossary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### GC/MS Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

### Glossary

**Abbreviation** These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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## Case Narrative

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

### Job ID: 720-64297-1

Laboratory: TestAmerica Pleasanton

#### Narrative

##### Job Narrative 720-64297-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 4/21/2015 4:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

#### GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 180197 recovered outside control limits for the following analytes: dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270C: The following sample required a dilution due to the nature of the sample matrix: SUMP-42015 (720-64297-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: The following sample was diluted due to color: SUMP-42015 (720-64297-1). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method(s) 8082: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SUMP-42015 (720-64297-1).

Method(s) 8015B: The following sample required a dilution due to the nature of the sample matrix: SUMP-42015 (720-64297-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

Method(s) 9045C: The pH for the following sample was outside the instrument calibration range of 1 to 10: SUMP-42015 (720-64297-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

Method(s) 3550B: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: Due to sample matrix, less than 30g was used as initial weight for 8270.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

**Client Sample ID: SUMP-42015**

**Lab Sample ID: 720-64297-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	110000		13000		mg/Kg	10		8015B	Silica Gel
Motor Oil Range Organics (C24-C36)	160000		13000		mg/Kg	10		8015B	Cleanup
Aroclor-1260	11000		2200		ug/Kg	5		8082	Silica Gel
Arsenic	0.93		0.66		mg/Kg	1		6010B	Cleanup
Barium	45		0.33		mg/Kg	1		6010B	Total/NA
Cadmium	1.3		0.082		mg/Kg	1		6010B	Total/NA
Chromium	2.6		0.33		mg/Kg	1		6010B	Total/NA
Cobalt	0.33		0.13		mg/Kg	1		6010B	Total/NA
Copper	27		0.99		mg/Kg	1		6010B	Total/NA
Lead	930		0.33		mg/Kg	1		6010B	Total/NA
Nickel	2.2		0.33		mg/Kg	1		6010B	Total/NA
Vanadium	1.6		0.33		mg/Kg	1		6010B	Total/NA
Zinc	14		0.99		mg/Kg	1		6010B	Total/NA
Mercury	0.0099		0.0086		mg/Kg	1		7471A	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	0.760		0.100		SU	1		9045C	Soluble

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Client Sample ID: SUMP-42015**

**Date Collected: 04/20/15 09:55**

**Date Received: 04/21/15 16:00**

**Lab Sample ID: 720-64297-1**

**Matrix: Waste**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Acetone	ND		4700		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Benzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Dichlorobromomethane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Bromobenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Chlorobromomethane	ND		1900		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Bromoform	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Bromomethane	ND		940		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
2-Butanone (MEK)	ND		4700		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
n-Butylbenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
sec-Butylbenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
tert-Butylbenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Carbon disulfide	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Carbon tetrachloride	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Chlorobenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Chloroethane	ND		940		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Chloroform	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Chloromethane	ND		940		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
2-Chlorotoluene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
4-Chlorotoluene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Chlorodibromomethane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,2-Dichlorobenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,3-Dichlorobenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,4-Dichlorobenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,3-Dichloropropane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,1-Dichloropropene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,2-Dibromo-3-Chloropropane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Ethylene Dibromide	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Dibromomethane	ND		940		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Dichlorodifluoromethane	ND *		940		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,1-Dichloroethane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,2-Dichloroethane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,1-Dichloroethene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
cis-1,2-Dichloroethene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
trans-1,2-Dichloroethene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,2-Dichloropropane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
cis-1,3-Dichloropropene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
trans-1,3-Dichloropropene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Ethylbenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Hexachlorobutadiene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
2-Hexanone	ND		4700		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Isopropylbenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
4-Isopropyltoluene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Methylene Chloride	ND		940		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
4-Methyl-2-pentanone (MIBK)	ND		4700		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Naphthalene	ND		940		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
N-Propylbenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Styrene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,1,1,2-Tetrachloroethane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Client Sample ID: SUMP-42015**

**Lab Sample ID: 720-64297-1**

**Date Collected: 04/20/15 09:55**

**Matrix: Waste**

**Date Received: 04/21/15 16:00**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Tetrachloroethene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Toluene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,2,3-Trichlorobenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,2,4-Trichlorobenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,1,1-Trichloroethane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,1,2-Trichloroethane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Trichloroethene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Trichlorofluoromethane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,2,3-Trichloropropane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,2,4-Trimethylbenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
1,3,5-Trimethylbenzene	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Vinyl acetate	ND		4700		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Vinyl chloride	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Xylenes, Total	ND		940		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
2,2-Dichloropropane	ND		470		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Gasoline Range Organics (GRO) -C5-C12	ND		23000		ug/Kg		04/22/15 16:44	04/22/15 17:03	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	93		66 - 148				04/22/15 16:44	04/22/15 17:03	100
1,2-Dichloroethane-d4 (Surr)	86		62 - 137				04/22/15 16:44	04/22/15 17:03	100
Toluene-d8 (Surr)	91		65 - 141				04/22/15 16:44	04/22/15 17:03	100

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: SUMP-42015**

**Date Collected: 04/20/15 09:55**

**Date Received: 04/21/15 16:00**

**Lab Sample ID: 720-64297-1**

**Matrix: Waste**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Acenaphthylene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Acenaphthene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Fluorene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Phenanthrene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Anthracene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Fluoranthene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Pyrene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Benzo[a]anthracene	ND		1800		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Chrysene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Benzo[b]fluoranthene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Benzo[k]fluoranthene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Benzo[a]pyrene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Indeno[1,2,3-cd]pyrene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Benzo[g,h,i]perylene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
2-Methylnaphthalene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Dibenz(a,h)anthracene	ND		360		mg/Kg		04/27/15 15:04	04/27/15 21:34	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	0	XD	27 - 116				04/27/15 15:04	04/27/15 21:34	50
2-Fluorobiphenyl	0	XD	30 - 112				04/27/15 15:04	04/27/15 21:34	50
Terphenyl-d14	0	XD	32 - 117				04/27/15 15:04	04/27/15 21:34	50

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: SUMP-42015

Lab Sample ID: 720-64297-1

Date Collected: 04/20/15 09:55

Matrix: Waste

Date Received: 04/21/15 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	110000		13000		mg/Kg		04/24/15 14:06	04/27/15 13:15	10
Motor Oil Range Organics (C24-C36)	160000		13000		mg/Kg		04/24/15 14:06	04/27/15 13:15	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	71		70 - 130				04/24/15 14:06	04/27/15 13:15	10

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: SUMP-42015**

**Date Collected: 04/20/15 09:55**

**Date Received: 04/21/15 16:00**

**Lab Sample ID: 720-64297-1**

**Matrix: Waste**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1221	ND		2200		ug/Kg		04/27/15 08:59	04/29/15 08:24	5
Aroclor-1242	ND		2200		ug/Kg		04/27/15 08:59	04/29/15 08:24	5
Aroclor-1254	ND		2200		ug/Kg		04/27/15 08:59	04/29/15 08:24	5
<b>Aroclor-1260</b>	<b>11000</b>		2200		ug/Kg		04/27/15 08:59	04/29/15 08:24	5
Aroclor-1016	ND		2200		ug/Kg		04/27/15 08:59	04/29/15 08:24	5
Aroclor-1248	ND		2200		ug/Kg		04/27/15 08:59	04/29/15 08:24	5
Aroclor-1232	ND		2200		ug/Kg		04/27/15 08:59	04/29/15 08:24	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	79		10 - 199				04/27/15 08:59	04/29/15 08:24	5
DCB Decachlorobiphenyl	62		10 - 199				04/27/15 08:59	04/29/15 08:24	5

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 6010B - Metals (ICP)

**Client Sample ID: SUMP-42015**

**Date Collected: 04/20/15 09:55**

**Date Received: 04/21/15 16:00**

**Lab Sample ID: 720-64297-1**

**Matrix: Waste**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.33		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
<b>Arsenic</b>	<b>0.93</b>		0.66		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
<b>Barium</b>	<b>45</b>		0.33		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
Beryllium	ND		0.066		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
<b>Cadmium</b>	<b>1.3</b>		0.082		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
<b>Chromium</b>	<b>2.6</b>		0.33		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
<b>Cobalt</b>	<b>0.33</b>		0.13		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
<b>Copper</b>	<b>27</b>		0.99		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
<b>Lead</b>	<b>930</b>		0.33		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
Molybdenum	ND		0.33		mg/Kg		04/22/15 19:39	04/27/15 12:20	1
<b>Nickel</b>	<b>2.2</b>		0.33		mg/Kg		04/22/15 19:39	04/27/15 12:20	1
Selenium	ND		0.66		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
Silver	ND		0.16		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
Thallium	ND		0.33		mg/Kg		04/22/15 19:39	04/27/15 12:20	1
<b>Vanadium</b>	<b>1.6</b>		0.33		mg/Kg		04/22/15 19:39	04/24/15 23:42	1
<b>Zinc</b>	<b>14</b>		0.99		mg/Kg		04/22/15 19:39	04/24/15 23:42	1

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 7471A - Mercury (CVAA)

Client Sample ID: SUMP-42015

Lab Sample ID: 720-64297-1

Date Collected: 04/20/15 09:55

Matrix: Waste

Date Received: 04/21/15 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0099		0.0086		mg/Kg		04/25/15 15:21	04/27/15 21:39	1

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TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## General Chemistry - Soluble

Client Sample ID: SUMP-42015

Date Collected: 04/20/15 09:55

Date Received: 04/21/15 16:00

Lab Sample ID: 720-64297-1

Matrix: Waste

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	0.760		0.100		SU			04/24/15 19:25	1

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TestAmerica Pleasanton

# Surrogate Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (66-148)	12DCE (62-137)	TOL (65-141)
720-64297-1	SUMP-42015	93	86	91
LCS 720-180197/5	Lab Control Sample	103	96	102
LCS 720-180197/7	Lab Control Sample	97	89	96
LCSD 720-180197/6	Lab Control Sample Dup	88	81	90
LCSD 720-180197/8	Lab Control Sample Dup	93	87	93
MB 720-180197/4	Method Blank	90	82	90

### Surrogate Legend

BFB = 4-Bromofluorobenzene

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (27-116)	FBP (30-112)	TPH (32-117)
720-64297-1	SUMP-42015	0 X D	0 X D	0 X D
LCS 720-180496/2-A	Lab Control Sample	64	70	91
MB 720-180496/1-A	Method Blank	56	66	80

### Surrogate Legend

NBZ = Nitrobenzene-d5

FBP = 2-Fluorobiphenyl

TPH = Terphenyl-d14

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Waste

Prep Type: Silica Gel Cleanup

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		OTC1 (70-130)	
720-64297-1	SUMP-42015	71	
LCS 440-251056/2-A	Lab Control Sample	86	
LCSD 440-251056/3-A	Lab Control Sample Dup	84	
MB 440-251056/1-A	Method Blank	77	

### Surrogate Legend

OTC = n-Octacosane

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (10-199)	DCB2 (10-199)
720-64297-1	SUMP-42015	79	62
LCS 240-178066/24-A	Lab Control Sample	89	94
MB 240-178066/23-A	Method Blank	117	113

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## Surrogate Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

### Surrogate Legend

TCX = Tetrachloro-m-xylene  
DCB = DCB Decachlorobiphenyl

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 720-180197/4**

**Matrix: Waste**

**Analysis Batch: 180197**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		500		ug/Kg			04/22/15 10:13	100
Acetone	ND		5000		ug/Kg			04/22/15 10:13	100
Benzene	ND		500		ug/Kg			04/22/15 10:13	100
Dichlorobromomethane	ND		500		ug/Kg			04/22/15 10:13	100
Bromobenzene	ND		500		ug/Kg			04/22/15 10:13	100
Chlorobromomethane	ND		2000		ug/Kg			04/22/15 10:13	100
Bromoform	ND		500		ug/Kg			04/22/15 10:13	100
Bromomethane	ND		1000		ug/Kg			04/22/15 10:13	100
2-Butanone (MEK)	ND		5000		ug/Kg			04/22/15 10:13	100
n-Butylbenzene	ND		500		ug/Kg			04/22/15 10:13	100
sec-Butylbenzene	ND		500		ug/Kg			04/22/15 10:13	100
tert-Butylbenzene	ND		500		ug/Kg			04/22/15 10:13	100
Carbon disulfide	ND		500		ug/Kg			04/22/15 10:13	100
Carbon tetrachloride	ND		500		ug/Kg			04/22/15 10:13	100
Chlorobenzene	ND		500		ug/Kg			04/22/15 10:13	100
Chloroethane	ND		1000		ug/Kg			04/22/15 10:13	100
Chloroform	ND		500		ug/Kg			04/22/15 10:13	100
Chloromethane	ND		1000		ug/Kg			04/22/15 10:13	100
2-Chlorotoluene	ND		500		ug/Kg			04/22/15 10:13	100
4-Chlorotoluene	ND		500		ug/Kg			04/22/15 10:13	100
Chlorodibromomethane	ND		500		ug/Kg			04/22/15 10:13	100
1,2-Dichlorobenzene	ND		500		ug/Kg			04/22/15 10:13	100
1,3-Dichlorobenzene	ND		500		ug/Kg			04/22/15 10:13	100
1,4-Dichlorobenzene	ND		500		ug/Kg			04/22/15 10:13	100
1,3-Dichloropropane	ND		500		ug/Kg			04/22/15 10:13	100
1,1-Dichloropropene	ND		500		ug/Kg			04/22/15 10:13	100
1,2-Dibromo-3-Chloropropane	ND		500		ug/Kg			04/22/15 10:13	100
Ethylene Dibromide	ND		500		ug/Kg			04/22/15 10:13	100
Dibromomethane	ND		1000		ug/Kg			04/22/15 10:13	100
Dichlorodifluoromethane	ND		1000		ug/Kg			04/22/15 10:13	100
1,1-Dichloroethane	ND		500		ug/Kg			04/22/15 10:13	100
1,2-Dichloroethane	ND		500		ug/Kg			04/22/15 10:13	100
1,1-Dichloroethene	ND		500		ug/Kg			04/22/15 10:13	100
cis-1,2-Dichloroethene	ND		500		ug/Kg			04/22/15 10:13	100
trans-1,2-Dichloroethene	ND		500		ug/Kg			04/22/15 10:13	100
1,2-Dichloropropene	ND		500		ug/Kg			04/22/15 10:13	100
cis-1,3-Dichloropropene	ND		500		ug/Kg			04/22/15 10:13	100
trans-1,3-Dichloropropene	ND		500		ug/Kg			04/22/15 10:13	100
Ethylbenzene	ND		500		ug/Kg			04/22/15 10:13	100
Hexachlorobutadiene	ND		500		ug/Kg			04/22/15 10:13	100
2-Hexanone	ND		5000		ug/Kg			04/22/15 10:13	100
Isopropylbenzene	ND		500		ug/Kg			04/22/15 10:13	100
4-Isopropyltoluene	ND		500		ug/Kg			04/22/15 10:13	100
Methylene Chloride	ND		1000		ug/Kg			04/22/15 10:13	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/Kg			04/22/15 10:13	100
Naphthalene	ND		1000		ug/Kg			04/22/15 10:13	100
N-Propylbenzene	ND		500		ug/Kg			04/22/15 10:13	100
Styrene	ND		500		ug/Kg			04/22/15 10:13	100

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-180197/4**

**Matrix: Waste**

**Analysis Batch: 180197**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		500		ug/Kg			04/22/15 10:13	100
1,1,2,2-Tetrachloroethane	ND		500		ug/Kg			04/22/15 10:13	100
Tetrachloroethene	ND		500		ug/Kg			04/22/15 10:13	100
Toluene	ND		500		ug/Kg			04/22/15 10:13	100
1,2,3-Trichlorobenzene	ND		500		ug/Kg			04/22/15 10:13	100
1,2,4-Trichlorobenzene	ND		500		ug/Kg			04/22/15 10:13	100
1,1,1-Trichloroethane	ND		500		ug/Kg			04/22/15 10:13	100
1,1,2-Trichloroethane	ND		500		ug/Kg			04/22/15 10:13	100
Trichloroethene	ND		500		ug/Kg			04/22/15 10:13	100
Trichlorofluoromethane	ND		500		ug/Kg			04/22/15 10:13	100
1,2,3-Trichloropropane	ND		500		ug/Kg			04/22/15 10:13	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500		ug/Kg			04/22/15 10:13	100
1,2,4-Trimethylbenzene	ND		500		ug/Kg			04/22/15 10:13	100
1,3,5-Trimethylbenzene	ND		500		ug/Kg			04/22/15 10:13	100
Vinyl acetate	ND		5000		ug/Kg			04/22/15 10:13	100
Vinyl chloride	ND		500		ug/Kg			04/22/15 10:13	100
Xylenes, Total	ND		1000		ug/Kg			04/22/15 10:13	100
2,2-Dichloropropane	ND		500		ug/Kg			04/22/15 10:13	100
Gasoline Range Organics (GRO)	ND		25000		ug/Kg			04/22/15 10:13	100
-C5-C12									

**MB MB**

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	90		66 - 148		04/22/15 10:13	100
1,2-Dichloroethane-d4 (Surr)	82		62 - 137		04/22/15 10:13	100
Toluene-d8 (Surr)	90		65 - 141		04/22/15 10:13	100

**Lab Sample ID: LCS 720-180197/5**

**Matrix: Waste**

**Analysis Batch: 180197**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike		LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Methyl tert-butyl ether	5000	5500		ug/Kg		110	71 - 146		
Acetone	25000	27500		ug/Kg		110	12 - 234		
Benzene	5000	5430		ug/Kg		109	76 - 122		
Dichlorobromomethane	5000	5190		ug/Kg		104	80 - 131		
Bromobenzene	5000	5790		ug/Kg		116	77 - 125		
Chlorobromomethane	5000	5760		ug/Kg		115	74 - 134		
Bromoform	5000	5340		ug/Kg		107	54 - 149		
Bromomethane	5000	4520		ug/Kg		90	14 - 175		
2-Butanone (MEK)	25000	27500		ug/Kg		110	58 - 159		
n-Butylbenzene	5000	5530		ug/Kg		111	57 - 164		
sec-Butylbenzene	5000	5540		ug/Kg		111	62 - 153		
tert-Butylbenzene	5000	5560		ug/Kg		111	72 - 136		
Carbon disulfide	5000	5140		ug/Kg		103	13 - 151		
Carbon tetrachloride	5000	5240		ug/Kg		105	72 - 136		
Chlorobenzene	5000	5500		ug/Kg		110	81 - 128		
Chloroethane	5000	4890		ug/Kg		98	53 - 124		
Chloroform	5000	5550		ug/Kg		111	75 - 133		

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-180197/5

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Matrix: Waste

Analysis Batch: 180197

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits		
	Added	Result	Qualifier						
Chloromethane	5000	5700		ug/Kg		114	43 - 146		
2-Chlorotoluene	5000	5650		ug/Kg		113	66 - 143		
4-Chlorotoluene	5000	5670		ug/Kg		113	73 - 136		
Chlorodibromomethane	5000	5540		ug/Kg		111	76 - 134		
1,2-Dichlorobenzene	5000	5680		ug/Kg		114	77 - 140		
1,3-Dichlorobenzene	5000	5620		ug/Kg		112	71 - 135		
1,4-Dichlorobenzene	5000	5680		ug/Kg		114	76 - 130		
1,3-Dichloropropane	5000	5470		ug/Kg		109	73 - 133		
1,1-Dichloropropene	5000	5900		ug/Kg		118	81 - 134		
1,2-Dibromo-3-Chloropropane	5000	5310		ug/Kg		106	52 - 156		
Ethylene Dibromide	5000	5590		ug/Kg		112	70 - 138		
Dibromomethane	5000	5550		ug/Kg		111	70 - 139		
Dichlorodifluoromethane	5000	6380	*	ug/Kg		128	30 - 120		
1,1-Dichloroethane	5000	5580		ug/Kg		112	79 - 125		
1,2-Dichloroethane	5000	5340		ug/Kg		107	67 - 126		
1,1-Dichloroethene	5000	5110		ug/Kg		102	74 - 122		
cis-1,2-Dichloroethene	5000	5550		ug/Kg		111	70 - 130		
trans-1,2-Dichloroethene	5000	5600		ug/Kg		112	74 - 128		
1,2-Dichloropropane	5000	5520		ug/Kg		110	70 - 130		
cis-1,3-Dichloropropene	5000	5850		ug/Kg		117	79 - 144		
trans-1,3-Dichloropropene	5000	5920		ug/Kg		118	78 - 144		
Ethylbenzene	5000	5400		ug/Kg		108	76 - 137		
Hexachlorobutadiene	5000	5650		ug/Kg		113	63 - 150		
2-Hexanone	25000	26700		ug/Kg		107	54 - 124		
Isopropylbenzene	5000	5460		ug/Kg		109	65 - 128		
4-Isopropyltoluene	5000	5430		ug/Kg		109	62 - 153		
Methylene Chloride	5000	5400		ug/Kg		108	79 - 128		
4-Methyl-2-pentanone (MIBK)	25000	26700		ug/Kg		107	53 - 129		
Naphthalene	5000	5420		ug/Kg		108	62 - 151		
N-Propylbenzene	5000	5570		ug/Kg		111	65 - 144		
Styrene	5000	5430		ug/Kg		109	79 - 139		
1,1,1,2-Tetrachloroethane	5000	5620		ug/Kg		112	72 - 129		
1,1,2,2-Tetrachloroethane	5000	5370		ug/Kg		107	69 - 133		
Tetrachloroethene	5000	5640		ug/Kg		113	79 - 130		
Toluene	5000	5540		ug/Kg		111	77 - 120		
1,2,3-Trichlorobenzene	5000	5700		ug/Kg		114	72 - 159		
1,2,4-Trichlorobenzene	5000	5560		ug/Kg		111	71 - 163		
1,1,1-Trichloroethane	5000	5280		ug/Kg		106	69 - 132		
1,1,2-Trichloroethane	5000	5320		ug/Kg		106	80 - 140		
Trichloroethene	5000	5630		ug/Kg		113	69 - 129		
Trichlorofluoromethane	5000	5370		ug/Kg		107	49 - 140		
1,2,3-Trichloropropane	5000	5590		ug/Kg		112	74 - 135		
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	5120		ug/Kg		102	66 - 128		
ne									
1,2,4-Trimethylbenzene	5000	5550		ug/Kg		111	62 - 155		
1,3,5-Trimethylbenzene	5000	5640		ug/Kg		113	69 - 142		
Vinyl acetate	5000	4550	J	ug/Kg		91	56 - 200		
Vinyl chloride	5000	4230		ug/Kg		85	10 - 118		

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-180197/5**

**Matrix: Waste**

**Analysis Batch: 180197**

Analyte	Spike Added	LCS			Unit	D	%Rec	%Rec.
		Result	Qualifier	Limits				
m-Xylene & p-Xylene	5000	5410		ug/Kg		108	71 - 142	
o-Xylene	5000	5530		ug/Kg		111	71 - 142	
2,2-Dichloropropane	5000	5320		ug/Kg		106	67 - 146	

Surrogate	LCS %Recovery	LCS		Limits
		Qualifier	Limits	
4-Bromofluorobenzene	103		66 - 148	
1,2-Dichloroethane-d4 (Surr)	96		62 - 137	
Toluene-d8 (Surr)	102		65 - 141	

**Lab Sample ID: LCS 720-180197/7**

**Matrix: Waste**

**Analysis Batch: 180197**

Analyte	Spike Added	LCS			Unit	D	%Rec	%Rec.
		Result	Qualifier	Limits				
Gasoline Range Organics (GRO)	100000	104000		ug/Kg		104	60 - 120	
-C5-C12								

Surrogate	LCS %Recovery	LCS		Limits
		Qualifier	Limits	
4-Bromofluorobenzene	97		66 - 148	
1,2-Dichloroethane-d4 (Surr)	89		62 - 137	
Toluene-d8 (Surr)	96		65 - 141	

**Lab Sample ID: LCSD 720-180197/6**

**Matrix: Waste**

**Analysis Batch: 180197**

Analyte	Spike Added	LCSD			Unit	D	%Rec	Limits	RPD	RPD Limit
		Result	Qualifier	Limits						
Methyl tert-butyl ether	5000	4790		ug/Kg		96	71 - 146		14	20
Acetone	25000	23600		ug/Kg		94	12 - 234		15	30
Benzene	5000	4730		ug/Kg		95	76 - 122		14	20
Dichlorobromomethane	5000	4680		ug/Kg		94	80 - 131		10	20
Bromobenzene	5000	4890		ug/Kg		98	77 - 125		17	20
Chlorobromomethane	5000	4950		ug/Kg		99	74 - 134		15	20
Bromoform	5000	4560		ug/Kg		91	54 - 149		16	20
Bromomethane	5000	3990		ug/Kg		80	14 - 175		12	20
2-Butanone (MEK)	25000	24100		ug/Kg		96	58 - 159		13	20
n-Butylbenzene	5000	4790		ug/Kg		96	57 - 164		14	20
sec-Butylbenzene	5000	4840		ug/Kg		97	62 - 153		14	20
tert-Butylbenzene	5000	4770		ug/Kg		95	72 - 136		15	20
Carbon disulfide	5000	4390		ug/Kg		88	13 - 151		16	20
Carbon tetrachloride	5000	4710		ug/Kg		94	72 - 136		11	20
Chlorobenzene	5000	4850		ug/Kg		97	81 - 128		13	20
Chloroethane	5000	4150		ug/Kg		83	53 - 124		16	20
Chloroform	5000	4820		ug/Kg		96	75 - 133		14	20
Chloromethane	5000	4970		ug/Kg		99	43 - 146		14	20
2-Chlorotoluene	5000	4790		ug/Kg		96	66 - 143		16	20
4-Chlorotoluene	5000	4860		ug/Kg		97	73 - 136		15	20
Chlorodibromomethane	5000	4760		ug/Kg		95	76 - 134		15	20

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-180197/6**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

**Analysis Batch: 180197**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
1,2-Dichlorobenzene	5000	4910		ug/Kg		98	77 - 140	15		20
1,3-Dichlorobenzene	5000	4900		ug/Kg		98	71 - 135	14		20
1,4-Dichlorobenzene	5000	4980		ug/Kg		100	76 - 130	13		20
1,3-Dichloropropane	5000	4720		ug/Kg		94	73 - 133	15		20
1,1-Dichloropropene	5000	5140		ug/Kg		103	81 - 134	14		20
1,2-Dibromo-3-Chloropropane	5000	4580		ug/Kg		92	52 - 156	15		20
Ethylene Dibromide	5000	4880		ug/Kg		98	70 - 138	14		20
Dibromomethane	5000	4890		ug/Kg		98	70 - 139	13		20
Dichlorodifluoromethane	5000	5470		ug/Kg		109	30 - 120	15		20
1,1-Dichloroethane	5000	4850		ug/Kg		97	79 - 125	14		20
1,2-Dichloroethane	5000	4680		ug/Kg		94	67 - 126	13		20
1,1-Dichloroethene	5000	4460		ug/Kg		89	74 - 122	13		20
cis-1,2-Dichloroethene	5000	4900		ug/Kg		98	70 - 130	12		20
trans-1,2-Dichloroethene	5000	4850		ug/Kg		97	74 - 128	14		20
1,2-Dichloropropane	5000	4720		ug/Kg		94	70 - 130	16		20
cis-1,3-Dichloropropene	5000	5120		ug/Kg		102	79 - 144	13		20
trans-1,3-Dichloropropene	5000	5230		ug/Kg		105	78 - 144	12		20
Ethylbenzene	5000	4730		ug/Kg		95	76 - 137	13		20
Hexachlorobutadiene	5000	5040		ug/Kg		101	63 - 150	11		20
2-Hexanone	25000	23000		ug/Kg		92	54 - 124	15		20
Isopropylbenzene	5000	4820		ug/Kg		96	65 - 128	13		20
4-Isopropyltoluene	5000	4690		ug/Kg		94	62 - 153	15		20
Methylene Chloride	5000	4750		ug/Kg		95	79 - 128	13		20
4-Methyl-2-pentanone (MIBK)	25000	22800		ug/Kg		91	53 - 129	16		20
Naphthalene	5000	4830		ug/Kg		97	62 - 151	12		20
N-Propylbenzene	5000	4780		ug/Kg		96	65 - 144	15		20
Styrene	5000	4850		ug/Kg		97	79 - 139	11		20
1,1,1,2-Tetrachloroethane	5000	4980		ug/Kg		100	72 - 129	12		20
1,1,2,2-Tetrachloroethane	5000	4640		ug/Kg		93	69 - 133	15		20
Tetrachloroethene	5000	4950		ug/Kg		99	79 - 130	13		20
Toluene	5000	4880		ug/Kg		98	77 - 120	13		20
1,2,3-Trichlorobenzene	5000	5050		ug/Kg		101	72 - 159	12		20
1,2,4-Trichlorobenzene	5000	4960		ug/Kg		99	71 - 163	11		20
1,1,1-Trichloroethane	5000	4570		ug/Kg		91	69 - 132	15		20
1,1,2-Trichloroethane	5000	4790		ug/Kg		96	80 - 140	10		20
Trichloroethene	5000	5130		ug/Kg		103	69 - 129	9		20
Trichlorofluoromethane	5000	4500		ug/Kg		90	49 - 140	18		20
1,2,3-Trichloropropane	5000	4920		ug/Kg		98	74 - 135	13		20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	5000	4400		ug/Kg		88	66 - 128	15		20
1,2,4-Trimethylbenzene	5000	4820		ug/Kg		96	62 - 155	14		20
1,3,5-Trimethylbenzene	5000	4880		ug/Kg		98	69 - 142	14		20
Vinyl acetate	5000	4190 J		ug/Kg		84	56 - 200	8		20
Vinyl chloride	5000	3540		ug/Kg		71	10 - 118	18		20
m-Xylene & p-Xylene	5000	4740		ug/Kg		95	71 - 142	13		20
o-Xylene	5000	4780		ug/Kg		96	71 - 142	15		20
2,2-Dichloropropane	5000	4420		ug/Kg		88	67 - 146	18		20

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-180197/6**

**Matrix: Waste**

**Analysis Batch: 180197**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	88		66 - 148
1,2-Dichloroethane-d4 (Surr)	81		62 - 137
Toluene-d8 (Surr)	90		65 - 141

**Lab Sample ID: LCSD 720-180197/8**

**Matrix: Waste**

**Analysis Batch: 180197**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike		LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added										
Gasoline Range Organics (GRO) -C5-C12	100000		101000		ug/Kg	101	101	60 - 120	3	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	93		66 - 148
1,2-Dichloroethane-d4 (Surr)	87		62 - 137
Toluene-d8 (Surr)	93		65 - 141

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 720-180496/1-A**

**Matrix: Waste**

**Analysis Batch: 180502**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 180496**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Acenaphthylene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Acenaphthene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Fluorene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Phenanthrene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Anthracene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Fluoranthene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Pyrene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Benzo[a]anthracene	ND		0.33		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Chrysene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Benzo[b]fluoranthene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Benzo[k]fluoranthene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Benzo[a]pyrene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Indeno[1,2,3-cd]pyrene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Benzo[g,h,i]perylene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
2-Methylnaphthalene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1
Dibenz(a,h)anthracene	ND		0.066		mg/Kg		04/27/15 09:34	04/27/15 18:26	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier				
Nitrobenzene-d5	56		27 - 116	04/27/15 09:34	04/27/15 18:26	1
2-Fluorobiphenyl	66		30 - 112	04/27/15 09:34	04/27/15 18:26	1
Terphenyl-d14	80		32 - 117	04/27/15 09:34	04/27/15 18:26	1

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 720-180496/2-A**

**Matrix: Waste**

**Analysis Batch: 180502**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 180496**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Naphthalene	1.32	0.895		mg/Kg		68	44 - 115
Acenaphthylene	1.32	0.991		mg/Kg		75	61 - 129
Acenaphthene	1.32	0.980		mg/Kg		74	50 - 115
Fluorene	1.32	1.05		mg/Kg		80	54 - 115
Phenanthrene	1.32	1.16		mg/Kg		88	54 - 115
Anthracene	1.32	1.15		mg/Kg		87	55 - 115
Fluoranthene	1.32	1.20		mg/Kg		91	54 - 115
Pyrene	1.32	1.18		mg/Kg		90	48 - 115
Benzo[a]anthracene	1.32	1.17		mg/Kg		89	55 - 115
Chrysene	1.32	1.22		mg/Kg		92	58 - 115
Benzo[b]fluoranthene	1.32	0.992		mg/Kg		75	56 - 115
Benzo[k]fluoranthene	1.32	1.18		mg/Kg		90	57 - 115
Benzo[a]pyrene	1.32	1.10		mg/Kg		84	55 - 115
Indeno[1,2,3-cd]pyrene	1.32	1.11		mg/Kg		84	56 - 115
Benzo[g,h,i]perylene	1.32	1.12		mg/Kg		85	56 - 115
2-Methylnaphthalene	1.32	0.889		mg/Kg		67	49 - 115
Dibenz(a,h)anthracene	1.32	1.10		mg/Kg		83	58 - 115
<hr/>							
Surrogate	LCS	LCS	Limits	Dil Fac	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier					
Nitrobenzene-d5	64		27 - 116				
2-Fluorobiphenyl	70		30 - 112				
Terphenyl-d14	91		32 - 117				

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 440-251056/1-A**

**Matrix: Waste**

**Analysis Batch: 251258**

**Client Sample ID: Method Blank**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 251056**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		1500		mg/Kg		04/24/15 14:06	04/27/15 08:36	1
Motor Oil Range Organics (C24-C36)	ND		1500		mg/Kg		04/24/15 14:06	04/27/15 08:36	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
n-Octacosane	77		70 - 130				04/24/15 14:06	04/27/15 08:36	1

**Lab Sample ID: LCS 440-251056/2-A**

**Matrix: Waste**

**Analysis Batch: 251258**

**Client Sample ID: Lab Control Sample**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 251056**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Diesel Range Organics [C10-C28]	5000	4600		mg/Kg		92	70 - 130
<hr/>							
Surrogate	LCS	LCS	Limits	Dil Fac	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier					
n-Octacosane	86		70 - 130				

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID:** LCSD 440-251056/3-A

**Matrix:** Waste

**Analysis Batch:** 251258

**Client Sample ID:** Lab Control Sample Dup

**Prep Type:** Silica Gel Cleanup

**Prep Batch:** 251056

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
		Result	Qualifier							
Diesel Range Organics [C10-C28]	5000	4450		mg/Kg		89	70 - 130	3		25
<b>Surrogate</b>										
<i>n</i> -Octacosane	84			70 - 130						

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID:** MB 240-178066/23-A

**Matrix:** Waste

**Analysis Batch:** 178392

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 178066

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor-1221	ND		500		ug/Kg		04/27/15 08:59	04/29/15 09:33	1
Aroclor-1242	ND		500		ug/Kg		04/27/15 08:59	04/29/15 09:33	1
Aroclor-1254	ND		500		ug/Kg		04/27/15 08:59	04/29/15 09:33	1
Aroclor-1260	ND		500		ug/Kg		04/27/15 08:59	04/29/15 09:33	1
Aroclor-1016	ND		500		ug/Kg		04/27/15 08:59	04/29/15 09:33	1
Aroclor-1248	ND		500		ug/Kg		04/27/15 08:59	04/29/15 09:33	1
Aroclor-1232	ND		500		ug/Kg		04/27/15 08:59	04/29/15 09:33	1
<b>Surrogate</b>									
<i>Tetrachloro-m-xylene</i>	117		10 - 199				04/27/15 08:59	04/29/15 09:33	1
<i>DCB Decachlorobiphenyl</i>	113		10 - 199				04/27/15 08:59	04/29/15 09:33	1

**Lab Sample ID:** LCS 240-178066/24-A

**Matrix:** Waste

**Analysis Batch:** 178392

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 178066

Analyte	MB	MB	Spike Added	LCSD	LCS	Unit	D	%Rec	Limits	Dil Fac
	Result	Qualifier								
Aroclor-1260			10000	7560		ug/Kg		76	32 - 141	
Aroclor-1016			10000	8160		ug/Kg		82	34 - 127	
<b>Surrogate</b>										
<i>Tetrachloro-m-xylene</i>	89		10 - 199							
<i>DCB Decachlorobiphenyl</i>	94		10 - 199							

## Method: 6010B - Metals (ICP)

**Lab Sample ID:** MB 720-180274/1-A

**Matrix:** Waste

**Analysis Batch:** 180501

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 180274

Analyte	MB	MB	Spike Added	LCS	LCS	Unit	D	%Rec	Limits	Dil Fac
	Result	Qualifier								
Antimony	ND		0.50			mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Arsenic	ND		1.0			mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Barium	ND		0.50			mg/Kg		04/22/15 19:39	04/24/15 21:26	1

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 720-180274/1-A**

**Matrix: Waste**

**Analysis Batch: 180501**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 180274**

**MB MB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.10		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Cadmium	ND		0.13		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Chromium	ND		0.50		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Cobalt	ND		0.20		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Copper	ND		1.5		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Lead	ND		0.50		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Molybdenum	ND		0.50		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Nickel	ND		0.50		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Selenium	ND		1.0		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Silver	ND		0.25		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Thallium	ND		0.50		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Vanadium	ND		0.50		mg/Kg		04/22/15 19:39	04/24/15 21:26	1
Zinc	ND		1.5		mg/Kg		04/22/15 19:39	04/24/15 21:26	1

**Lab Sample ID: LCS 720-180274/2-A**

**Matrix: Waste**

**Analysis Batch: 180501**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 180274**

**Spike LCS LCS %Rec.**

Analyte	Spike Added	Result	Qualifier	Unit	D	%Rec	Limits
Antimony	50.0	49.4		mg/Kg		99	80 - 120
Arsenic	50.0	50.2		mg/Kg		100	80 - 120
Barium	50.0	49.2		mg/Kg		98	80 - 120
Beryllium	50.0	49.7		mg/Kg		99	80 - 120
Cadmium	50.0	51.0		mg/Kg		102	80 - 120
Chromium	50.0	51.3		mg/Kg		103	80 - 120
Cobalt	50.0	52.2		mg/Kg		104	80 - 120
Copper	50.0	50.6		mg/Kg		101	80 - 120
Lead	50.0	51.5		mg/Kg		103	80 - 120
Molybdenum	50.0	53.1		mg/Kg		106	80 - 120
Nickel	50.0	52.7		mg/Kg		105	80 - 120
Selenium	50.0	49.1		mg/Kg		98	80 - 120
Silver	25.0	25.1		mg/Kg		100	80 - 120
Thallium	50.0	52.1		mg/Kg		104	80 - 120
Vanadium	50.0	49.1		mg/Kg		98	80 - 120
Zinc	50.0	51.2		mg/Kg		102	80 - 120

**Lab Sample ID: LCSD 720-180274/3-A**

**Matrix: Waste**

**Analysis Batch: 180501**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 180274**

**Spike LCSD LCSD %Rec.**

Analyte	Spike Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	50.0	49.4		mg/Kg		99	80 - 120	0	20
Arsenic	50.0	50.3		mg/Kg		101	80 - 120	0	20
Barium	50.0	50.8		mg/Kg		102	80 - 120	3	20
Beryllium	50.0	51.2		mg/Kg		102	80 - 120	3	20
Cadmium	50.0	50.9		mg/Kg		102	80 - 120	0	20
Chromium	50.0	50.9		mg/Kg		102	80 - 120	1	20
Cobalt	50.0	52.1		mg/Kg		104	80 - 120	0	20
Copper	50.0	50.5		mg/Kg		101	80 - 120	0	20

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCSD 720-180274/3-A**

**Matrix: Waste**

**Analysis Batch: 180501**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 180274**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
Lead	50.0	51.4		mg/Kg		103	80 - 120	0	20	
Molybdenum	50.0	53.5		mg/Kg		107	80 - 120	1	20	
Nickel	50.0	52.7		mg/Kg		105	80 - 120	0	20	
Selenium	50.0	49.1		mg/Kg		98	80 - 120	0	20	
Silver	25.0	25.1		mg/Kg		101	80 - 120	0	20	
Thallium	50.0	52.0		mg/Kg		104	80 - 120	0	20	
Vanadium	50.0	49.2		mg/Kg		98	80 - 120	0	20	
Zinc	50.0	51.1		mg/Kg		102	80 - 120	0	20	

**Lab Sample ID: LCSSRM 720-180274/25-A**

**Matrix: Waste**

**Analysis Batch: 180501**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 180274**

Analyte	Spike	LCSSRM	LCSSRM	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
Antimony	74.6	35.7		mg/Kg		48	11 - 101			
Arsenic	45.5	43.3		mg/Kg		95	69 - 119			
Barium	579	577		mg/Kg		100	61 - 117			
Beryllium	155	151		mg/Kg		97	56 - 102			
Cadmium	201	186		mg/Kg		92	67 - 118			
Chromium	106	101		mg/Kg		95	67 - 121			
Cobalt	247	236		mg/Kg		95	64 - 133			
Copper	130	128		mg/Kg		98	68 - 126			
Lead	302	269		mg/Kg		89	62 - 113			
Molybdenum	165	152		mg/Kg		92	62 - 128			
Nickel	305	288		mg/Kg		94	65 - 117			
Selenium	133	125		mg/Kg		94	63 - 126			
Silver	33.5	32.3		mg/Kg		96	51 - 130			
Thallium	191	177		mg/Kg		93	64 - 124			
Vanadium	214	205		mg/Kg		96	67 - 123			
Zinc	388	353		mg/Kg		91	62 - 110			

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 720-180468/1-A**

**Matrix: Waste**

**Analysis Batch: 180567**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 180468**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Mercury	ND				0.010		mg/Kg		04/25/15 15:21	04/27/15 20:40	1

**Lab Sample ID: LCS 720-180468/2-A**

**Matrix: Waste**

**Analysis Batch: 180567**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 180468**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
Mercury	0.833	0.925		mg/Kg		111	80 - 120	0	20	

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## Method: 7471A - Mercury (CVAA) (Continued)

**Lab Sample ID: LCSD 720-180468/3-A**

**Matrix: Waste**

**Analysis Batch: 180567**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 180468**

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	RPD	Limit
		Result	Qualifier					
Mercury	0.833	0.925		mg/Kg		111	80 - 120	0 20

**Lab Sample ID: 720-64297-1 MS**

**Matrix: Waste**

**Analysis Batch: 180567**

**Client Sample ID: SUMP-42015**

**Prep Type: Total/NA**

**Prep Batch: 180468**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Mercury	0.0099		0.694	0.819		mg/Kg		117	75 - 125

**Lab Sample ID: 720-64297-1 MSD**

**Matrix: Waste**

**Analysis Batch: 180567**

**Client Sample ID: SUMP-42015**

**Prep Type: Total/NA**

**Prep Batch: 180468**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Mercury	0.0099		0.769	0.938		mg/Kg		121	75 - 125

## Method: 9045C - pH

**Lab Sample ID: LCS 720-180444/1**

**Matrix: Waste**

**Analysis Batch: 180444**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCs	LCs	Unit	D	%Rec	Limits
		Result	Qualifier				
pH	7.00	7.000		SU		100	99 - 101

# QC Association Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## GC/MS VOA

### Analysis Batch: 180197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Total/NA	Waste	8260B	180231
LCS 720-180197/5	Lab Control Sample	Total/NA	Waste	8260B	
LCS 720-180197/7	Lab Control Sample	Total/NA	Waste	8260B	
LCSD 720-180197/6	Lab Control Sample Dup	Total/NA	Waste	8260B	
LCSD 720-180197/8	Lab Control Sample Dup	Total/NA	Waste	8260B	
MB 720-180197/4	Method Blank	Total/NA	Waste	8260B	

### Prep Batch: 180231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Total/NA	Waste	5030B	9

## GC/MS Semi VOA

### Prep Batch: 180496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Total/NA	Waste	3550B	12
LCS 720-180496/2-A	Lab Control Sample	Total/NA	Waste	3550B	
MB 720-180496/1-A	Method Blank	Total/NA	Waste	3550B	

### Analysis Batch: 180502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Total/NA	Waste	8270C	180496
LCS 720-180496/2-A	Lab Control Sample	Total/NA	Waste	8270C	180496
MB 720-180496/1-A	Method Blank	Total/NA	Waste	8270C	180496

## GC Semi VOA

### Prep Batch: 178066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Total/NA	Waste	3540C	
LCS 240-178066/24-A	Lab Control Sample	Total/NA	Waste	3540C	
MB 240-178066/23-A	Method Blank	Total/NA	Waste	3540C	

### Analysis Batch: 178392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Total/NA	Waste	8082	178066
LCS 240-178066/24-A	Lab Control Sample	Total/NA	Waste	8082	178066
MB 240-178066/23-A	Method Blank	Total/NA	Waste	8082	178066

### Prep Batch: 251056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Silica Gel Cleanup	Waste	3580A	
LCS 440-251056/2-A	Lab Control Sample	Silica Gel Cleanup	Waste	3580A	
LCSD 440-251056/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Waste	3580A	
MB 440-251056/1-A	Method Blank	Silica Gel Cleanup	Waste	3580A	

### Analysis Batch: 251258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-251056/2-A	Lab Control Sample	Silica Gel Cleanup	Waste	8015B	251056
LCSD 440-251056/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Waste	8015B	251056

TestAmerica Pleasanton

# QC Association Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

## GC Semi VOA (Continued)

### Analysis Batch: 251258 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-251056/1-A	Method Blank	Silica Gel Cleanup	Waste	8015B	251056

### Analysis Batch: 251260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Silica Gel Cleanup	Waste	8015B	251056

## Metals

### Prep Batch: 180274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Total/NA	Waste	3050B	10
LCS 720-180274/2-A	Lab Control Sample	Total/NA	Waste	3050B	11
LCSD 720-180274/3-A	Lab Control Sample Dup	Total/NA	Waste	3050B	12
LCSSRM 720-180274/25-A	Lab Control Sample	Total/NA	Waste	3050B	13
MB 720-180274/1-A	Method Blank	Total/NA	Waste	3050B	14

### Prep Batch: 180468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Total/NA	Waste	7471A	13
720-64297-1 MS	SUMP-42015	Total/NA	Waste	7471A	14
720-64297-1 MSD	SUMP-42015	Total/NA	Waste	7471A	15
LCS 720-180468/2-A	Lab Control Sample	Total/NA	Waste	7471A	
LCSD 720-180468/3-A	Lab Control Sample Dup	Total/NA	Waste	7471A	
MB 720-180468/1-A	Method Blank	Total/NA	Waste	7471A	

### Analysis Batch: 180501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Total/NA	Waste	6010B	180274
LCS 720-180274/2-A	Lab Control Sample	Total/NA	Waste	6010B	180274
LCSD 720-180274/3-A	Lab Control Sample Dup	Total/NA	Waste	6010B	180274
LCSSRM 720-180274/25-A	Lab Control Sample	Total/NA	Waste	6010B	180274
MB 720-180274/1-A	Method Blank	Total/NA	Waste	6010B	180274

### Analysis Batch: 180514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Total/NA	Waste	6010B	180274

### Analysis Batch: 180567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Total/NA	Waste	7471A	180468
720-64297-1 MS	SUMP-42015	Total/NA	Waste	7471A	180468
720-64297-1 MSD	SUMP-42015	Total/NA	Waste	7471A	180468
LCS 720-180468/2-A	Lab Control Sample	Total/NA	Waste	7471A	180468
LCSD 720-180468/3-A	Lab Control Sample Dup	Total/NA	Waste	7471A	180468
MB 720-180468/1-A	Method Blank	Total/NA	Waste	7471A	180468

## QC Association Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

### General Chemistry

#### Leach Batch: 180428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Soluble	Waste	DI Leach	

#### Analysis Batch: 180444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64297-1	SUMP-42015	Soluble	Waste	9045C	180428
LCS 720-180444/1	Lab Control Sample	Total/NA	Waste	9045C	

# Lab Chronicle

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

**Client Sample ID: SUMP-42015**

**Lab Sample ID: 720-64297-1**

**Date Collected: 04/20/15 09:55**

**Matrix: Waste**

**Date Received: 04/21/15 16:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			180231	04/22/15 16:44	ASC	TAL PLS
Total/NA	Analysis	8260B		100	180197	04/22/15 17:03	PRD	TAL PLS
Total/NA	Prep	3550B			180496	04/27/15 15:04	CJG	TAL PLS
Total/NA	Analysis	8270C		50	180502	04/27/15 21:34	JZT	TAL PLS
Silica Gel Cleanup	Prep	3580A			251056	04/24/15 14:06	VA	TAL IRV
Silica Gel Cleanup	Analysis	8015B		10	251260	04/27/15 13:15	KW	TAL IRV
Total/NA	Prep	3540C			178066	04/27/15 08:59	CS	TAL CAN
Total/NA	Analysis	8082		5	178392	04/29/15 08:24	KMG	TAL CAN
Total/NA	Prep	3050B			180274	04/22/15 19:39	CTD	TAL PLS
Total/NA	Analysis	6010B		1	180501	04/24/15 23:42	SLK	TAL PLS
Total/NA	Prep	3050B			180274	04/22/15 19:39	CTD	TAL PLS
Total/NA	Analysis	6010B		1	180514	04/27/15 12:20	EFH	TAL PLS
Total/NA	Prep	7471A			180468	04/25/15 15:21	ASB	TAL PLS
Total/NA	Analysis	7471A		1	180567	04/27/15 21:39	SLK	TAL PLS
Soluble	Leach	DI Leach			180428	04/24/15 16:40	EYT	TAL PLS
Soluble	Analysis	9045C		1	180444	04/24/15 19:25	EYT	TAL PLS

**Laboratory References:**

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

TestAmerica Pleasanton

## Certification Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

### Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

### Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	04-30-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

### Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-15
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	06-06-15

\* Certification renewal pending - certification considered valid.

TestAmerica Pleasanton

## Method Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS
9045C	pH	SW846	TAL PLS

### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

## Sample Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64297-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-64297-1	SUMP-42015	Waste	04/20/15 09:55	04/21/15 16:00

1

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TestAmerica Pleasanton

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



**PES Environmental, Inc.**  
Engineering & Environmental Services

LABORATORY: Test America

JOB NUMBER: 1409.002.02

NAME / LOCATION: 837 Industrial Road

PROJECT MANAGER: CJB

SAMPLERS: J. Phillips

ANALYSIS REQUESTED

**720-64297**  
**160448**

1682 NOVATO BOULEVARD, SUITE 100  
NOVATO, CALIFORNIA 94947  
(415) 899-1600 FAX (415) 899-1601

4/29/2015

## CHAIN OF CUSTODY RECORD

DATE				SAMPLE NUMBER / DESIGNATION
YR	MO	DY	TIME	
15	04	20	155	SVmp-42015

RECODER: J. Phillips

MATRIX	Product	# of Containers & Preservatives	DEPTH
			IN FEET
Vapor	Unpres.	X	
Water	EnCore		
Soil	H <sub>2</sub> SO <sub>4</sub>		
Sedimt	HNO <sub>3</sub>		
	HCl		
		Z	

X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X

EPA 5035/8010	PCBs
EPA 5035/8021	*
EPA 5035/8260B	VOCs/TPHs
TPHg by 5035/8015M	
TPHd by 8015M *	
TPHmo by 8015M *	
EPA 8270C	PAHs
MNA Parameters (see notes)	
3540C	PCBs *
T. 22 Metals (6010B/747)	
pH	



720-64297 Chain of Custody

CHAIN OF CUSTODY RECORD			
RElinquished By: (Signature) <i>J. Phillips</i>	Received By: (Signature) <i>J. Phillips</i>	DATE 4/21/15	TIME 1345
RElinquished By: (Signature) <i>J. Phillips</i>	Received By: (Signature) <i>J. Phillips</i>	DATE 4/21/15	TIME 1400
RElinquished By: (Signature)	Received By: (Signature)	DATE	TIME
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)
METHOD OF SHIPMENT:			

NOTES			
Turn Around Time: 5 day turn around time			
* = w/ silica gel clean-up			
** = analytical method EPA 8082A			
Note: Please analyze the tar-like substance and not the water.			
Page 1 of 1 24°C			

## Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 720-64297-1

**Login Number: 64297**

**List Source: TestAmerica Pleasanton**

**List Number: 1**

**Creator: Bullock, Tracy**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 720-64297-1

**Login Number:** 64297

**List Source:** TestAmerica Irvine

**List Number:** 2

**List Creation:** 04/23/15 12:15 PM

**Creator:** Ornelas, Olga

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True		1
The cooler's custody seal, if present, is intact.	True		2
Sample custody seals, if present, are intact.	True		3
The cooler or samples do not appear to have been compromised or tampered with.	True		4
Samples were received on ice.	True		5
Cooler Temperature is acceptable.	True		6
Cooler Temperature is recorded.	True		7
COC is present.	True		8
COC is filled out in ink and legible.	True		9
COC is filled out with all pertinent information.	True		10
Is the Field Sampler's name present on COC?	True		11
There are no discrepancies between the containers received and the COC.	True		12
Samples are received within Holding Time.	True		13
Sample containers have legible labels.	True		14
Containers are not broken or leaking.	True		15
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	N/A		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

**APPENDIX B**

**UNIFORM HAZARDOUS WASTE MANIFEST**

Print or type. (Form designed for use on elite (12-pitch) typewriter.)

0093850

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number <b>CAL000406817</b>	2. Page 1 of <b>12</b>	3. Emergency Response Phone <b>888-423-6000</b>	4. Manifest Tracking Number <b>008874572 JJK</b>		
5. Generator's Name and Mailing Address <b>WHPV TANKLAGE SPE LLC 530 EMERSON ST STE 150, Palo Alto, CA 94301</b>	Generator's Site Address (if different than mailing address) <b>837 Industrial Road San Carlos, CA 94707</b>					
Generator's Phone: <b>6508471170</b>						
6. Transporter 1 Company Name <b>American Integrated Services, Inc.</b>	U.S. EPA ID Number <b>CAR000148338</b>					
7. Transporter 2 Company Name <b>Clean Harbors</b>	U.S. EPA ID Number <b>NAD03937750</b>					
8. Designated Facility Name and Site Address <b>Clean Harbors Aragonite, LLC Service 11600 North Aptos Road, Grantsville, UT 84023 USA</b>	U.S. EPA ID Number <b>UTS951552177</b>					
Facility's Phone: <b>435-884-8100</b>						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) <b>UN1780, Waste Corrosive Liquids, N.O.S.,(Acidic Tar),8,PG II</b>	10. Containers No. <b>01</b>	Type <b>DM</b>	11. Total Quantity <b>55</b>	12. Unit Wt/Vol. <b>G</b>	13. Waste Codes <b>135 D002</b>
1.						
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information <b>Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6000.</b>						
Project #: 75006-12-8 Profile #: CH1029147 SO# 1502592451						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name <b>MICHAEL FRIED</b> Signature Month Day Year <b>18 14 15</b>						
16. International Shipments <input checked="" type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.      Port of entry/exit Transporter signature (for exports only): Date leaving U.S.: Month Day Year <b>15 7 15</b>						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name <b>MARCO ARVIZO</b> Signature Month Day Year <b>15 7 15</b>						
Transporter 2 Printed/Typed Name <b>MOSSES SILVA</b> Signature Month Day Year <b>18 14 15</b>						
18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: U.S. EPA ID Number						
18b. Alternate Facility (or Generator) Facility's Phone: 18c. Signature of Alternate Facility (or Generator)						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. <b>H040</b> 2.      3.      4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name <b>Haley unit</b> Signature Month Day Year <b>18 120 15</b>						

# LDR NOTIFICATION FORM

Generator Name **WHPV Tanklage SPE LLC**

Manifest No. **008874572JK**

Pursuant to 40 CFR §268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268 Land Disposal Restrictions (LDR).

## A. GENERAL WASTE NOTIFICATION

Form Line No.	CH Profile No.	EPA Waste Codes & LDR Subcategories (if any) <i>List codes or use Attachment 1</i>	NWW	WW	Waste Constituent Notification <i>Check the "None" box or List Legend Constituent # or use Attachment 2</i>
1	<b>CH1029147</b>	<b>D002</b>  <input type="checkbox"/> Check if Attachment 1 has been used		<input checked="" type="checkbox"/>	  <input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
2		  <input type="checkbox"/> Check if Attachment 1 has been used	<input type="checkbox"/>	<input type="checkbox"/>	  <input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
3		  <input type="checkbox"/> Check if Attachment 1 has been used	<input type="checkbox"/>	<input type="checkbox"/>	  <input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
4		  <input type="checkbox"/> Check if Attachment 1 has been used	<input type="checkbox"/>	<input type="checkbox"/>	  <input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
5		  <input type="checkbox"/> Check if Attachment 1 has been used	<input type="checkbox"/>	<input type="checkbox"/>	  <input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
6		  <input type="checkbox"/> Check if Attachment 1 has been used	<input type="checkbox"/>	<input type="checkbox"/>	  <input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used

## B. HAZARDOUS DEBRIS NOTIFICATION

This hazardous debris, as identified above on Line No(s). \_\_\_\_\_ is subject to the alternative treatment standards of 40 CFR §268.45.

The waste contains the following contaminants subject to treatment (check all that apply):

Toxicity characteristic debris     Debris contaminated with listed waste     Cyanide reactive debris

## C. CONTAMINATED SOIL NOTIFICATION & CERTIFICATION

This contaminated soil, as identified above on Line No(s). \_\_\_\_\_ is subject to the alternative treatment standards of 40 CFR §268.49(c). Complete the following: "I certify under penalty of law that I personally have examined this contaminated soil & it [  does /  does not] contain listed hazardous waste & [  does /  does not] exhibit a characteristic of hazardous waste & [  is subject to /  complies with] soil treatment standards as provided by §268.49(c) or the universal treatment standards". Note: Constituents subject to treatment are any constituents listed in 40 CFR §268.48 Universal Treatment Standards that are reasonably expected to be present in any given volume of contaminated soil, except fluoride, selenium, sulfides, vanadium & zinc, & are present at concentrations greater than ten times the universal treatment standard.

## D. LAB PACK (INCINERATION) NOTIFICATION & CERTIFICATION

This lab pack, as identified above on Line No(s). \_\_\_\_\_ is subject to the alternative treatment standards of 40 CFR §268.42(c). "I certify under penalty of law that I personally have examined & am familiar with the waste & that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR Part 268 & that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR §268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment".

## E. EXTENSIONS & VARIANCES

This waste, as identified above on Line No(s). \_\_\_\_\_ is not prohibited from land disposal & is subject to a deadline extension or variance, e.g., treatability variance, case-by-case extension. *Describe below any extension or variance that applies to this waste & include applicable dates:*

Generator's Authorized Signature

*MICHAEL FIELD, MANAGING MEMBER 8/4 / 15*  
Name & Title (Printed or Typed)

Date

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number <i>CA20000406817</i>	22. Page <i>2/2</i>	23. Manifest Tracking Number <i>008874572WZ</i>			
24. Generator's Name <i>WHW Tankage Inc</i>							
25. Transporter <u>3</u> Company Name <i>S&amp;T</i>		U.S. EPA ID Number <i>A200051370</i>					
26. Transporter _____ Company Name		U.S. EPA ID Number					
<b>GENERATOR</b>	27a. HM 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		28. Containers	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes	
	No.	Type					
32. Special Handling Instructions and Additional Information							
<b>TRANSPORTER</b>	33. Transporter Printed/Typed Name	Acknowledgment of Receipt of Materials		Signature	Month	Day	Year
	<i>Joseph Coprma</i>			<i>[Signature]</i>	<i>19</i>	<i>18</i>	<i>15</i>
<b>DESIGNATED FACILITY</b>	34. Transporter Printed/Typed Name	Acknowledgment of Receipt of Materials		Signature	Month	Day	Year
35. Discrepancy							
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							

**APPENDIX C**

**CONFLUENCE ENVIRONMENTAL FIELD SHEETS**

**Second Quarter 2015 Field Sheets**

Confluence Environmental, Inc.  
3308 El Camino Ave, Suite 300 #148  
Sacramento, CA 95821  
916-760-7641 - main  
916-473-8617 - fax  
[www.confluence-env.com](http://www.confluence-env.com)



# Chain of Custody

Project Name: 837 Industrial Rd, San Carlos

Job Number: Ti-150515

TAT: STANDARD 5 DAY 2 DAY 24 HOUR OTHER:

Page 1 of 1

Lab: Test America	Site Address: 837 Industrial Rd, San Carlos																								
Address: Pleasanton	California Global ID No.:																								
Contact:	Include EDF w/ Report: Yes No * per agreement w/ PES																								
Phone/Fax:	Consultant / PM: PES / Chris Baldassari																								
Phone / Fax:	415-899-1600																								
Matrix	Sample ID	Time	Date	Soil/Solid Water/Liquid	Air	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	PCBs (8082 w/ 3541 prep*)	PAHs (8270)	Silica gel cleanup)	TPH-D, TPH-MO (8015M w/ VOCs & TPH-G (8260B))	Requested Analysis										Notes and Comments	
														No. of Contaminants	Preservative	Uppreserved									
MW-1	1355-5-5	5	5/5/13	X																					
Relinquished By / Affiliation																									
Date Time Accepted By / Affiliation Date Time																									
Sampler's Name: <u>Leanne Thomas</u>																									
Sampler's Company: Confluence Environmental																									
Shipment Date: <u>5-15-13</u>																									
Shipment Method: <u>Air</u>																									
Special Instructions: * contact Chris Baldassari for details on PCB method 415-497-2731																									

Meter Calibration Log

Confluence Environmental, Inc.

ORP Values (degrees in C then value): 5:257.0 10:250.5 15:244.0 20:237.5 25:231.0 30:224.5 35:218.0 40:211.5

# Well Maintenance Inspection Form

Client: PES

Site: PES @ 837 Industrial Rd, San Carlos Date: 5-15-75

Job #: TI-150515

Technician: Lowell Thomson

Page 1 of 1

#### Notes:

Repair codes: **rt**=retap/ bolts added or replaced    **as**=annular seal repair,

## Water Level Measurements

Job Number: T1-150515

Date: 5-15-15 Client: PES

Site: PES @ 837 Industrial Rd, San Carlos

## Purging And Sampling Data Sheet

<b>Job#:</b> TI-150515	<b>Sampler:</b> Lowell Thomson	<b>Client:</b> PES
<b>Well ID:</b> MW-1	<b>Date:</b> 5-15-15	<b>Site:</b> 837 Industrial Rd, San Carlos CA
<b>Well diam:</b> 1/4" 1" 2" 3" 4" 6" Other:	<b>DTW:</b> 7.82 <b>Total Depth:</b> 17.20	
<b>Purge equip:</b> ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System disp bailer teflon bailer other: <b>Tubing:</b> OD: New Dedicated NA		
<b>Purge method:</b> 3-5 Case Volume Micro/Low-Flow Extraction Other:		
<b>Pump depth/ intake:</b> 12.50 <b>Multipliers:</b> 1" = 0.04 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 Radius <sup>2</sup> X 0.163 (TD - DTW X Multiplier = 1 Volume)    80% Recovery (TD - DTW X 0.20 + DTW)		

1 Volume = \_\_\_\_\_ X \_\_\_\_\_ = \_\_\_\_\_ (Total Purge)      80% = \_\_\_\_\_

Time	Temp (°C / °F)	pH	Cond (mS / μS)	Turbidity (NTU)	Purge Rate (gal or mL/min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
1332	19.4	7.08	11404	35.2	400	1.2	1.34	64.3	8.05	
1335	19.4	7.08	13449	28.8	1	2.4	0.67	63.6	8.02	
1338	19.4	7.08	15511	25.5	1	3.6	0.53	60.7	8.00	
1341	19.3	7.12	16124	23.6	1	4.8	0.51	59.0	8.00	
1344	19.3	7.15	16335	22.5	1	6.0	0.54	55.1	8.00	
1347	19.4	7.15	16349	23.1	1	7.2	0.56	51.7	8.00	
1350	19.3	7.15	16271	22.1	1	8.4	0.58	48.7	8.00	

Did well dewater? YES **NO** Total volume removed: 8.4 (gal L)

Sample method: Disp. Bailer Ded. Tubing **New Tubing** Ext. Port Other:

Sample date: 5-14-15 Sample time: 1355 DTW at sample: 8.00

Sample ID: MW-1 Lab: Test America Number of bottles: 9

Analysis: VOC's & TPH-G, TPH-D & TPH-Mo w/ Sqc, PAH's, PCB's

Equipment blank ID	@	Field blank ID	@
Duplicate ID:	Pre-purge DO:		Post purge DO:
Fe <sup>2+</sup> :	Pre-purge ORP:		Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml	

**Fourth Quarter 2015 Field Sheets**



**Confluence Environmental, Inc.**  
33309 El Camino Ave, Suite 300 #148  
Sacramento, CA 95821  
916-760-7641 - main  
316-473-8617 - fax  
[www.confluence-env.com](http://www.confluence-env.com)

### Chain of Custody

Project Name: 837 Industrial Rd, San Carlos

[www.confluence-env.com](http://www.confluence-env.com)

CONFLUENCE

JOB Number: 112-111-1

P1-151119

Page 1 of 1.

## Meter Calibration Log

EQUIPMENT MAKE	EQUIPMENT MODEL	SERIAL NUMBER	DATE	TIME	TEMP OF CALIBRATION STANDARD (°C or °F)	pH STANDARD	pH STANDARD	SPECIFIC CONDUCTANCE	ORP	DISSOLVED OXYGEN
YSI	Pro+	1131002248	11/19/15	0755	19.2	4.00	7.00	10.00	12113	237.5 mV 100 mg/L 0%

## **Well Maintenance Inspection Form**

Client: PES

Site: 837 Industrial Rd, San Carlos

Date: 11/19/15

Job #: PI-151119

Technician: M. Pestoni

Page ( of )

## Notes:

Repair codes: **rt**=retap/ bolts added or replaced    **as**=annular seal repair,

## Water Level Measurements

Job Number: P1-151119

Date: 11/19/15 Client: PES

Site: 837 Industrial Rd., San Carlos

## Purging And Sampling Data Sheet

<b>Job#:</b> P1-151119	<b>Sampler:</b> M. Postoni	<b>Client:</b> PES
<b>Well ID:</b> MW-1	<b>Date:</b> 11/19/15	<b>Site:</b> 837 Industrial
<b>Well diam:</b> 1/4" 1" 2" 3" 4" 6" Other:		<b>DTW:</b> 7.75 <b>Total Depth:</b> 17.20
<b>Purge equip:</b> ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer	teflon bailer	other:
<b>Tubing:</b> OD: New Dedicated NA		
<b>Purge method:</b> 3-5 Case Volume Micro/Low-Flow Extraction Other:		
<b>Pump depth/ intake:</b> <b>Multipliers:</b> 1" = 0.04 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 Radius <sup>2</sup> X 0.163		
(TD - DTW X Multiplier = 1 Volume		80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = \_\_\_\_\_ X \_\_\_\_\_ = \_\_\_\_\_ (Total Purge)                          80% = \_\_\_\_\_

Did well dewater? YES NO Total volume removed: 7.0 (gal /L)

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 11/19/15 Sample time: 0830 DTW at sample: 7.83

Sample ID: 110-1 Lab: Number of bottles: 9

Analysis: *C. Cee*

Analysis: *Soc 101*

Equipment blank ID @ Field blank ID @

Duplicate ID: Pre-purge DO: Post purge DO:

Fe<sup>2+</sup>: Pre-purge ORP: Post purge ORP:

NAPL depth: Volume of NAPL: Volume removed:

## **APPENDIX D**

### **LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION - SECOND AND FOURTH QUARTER 2015 GROUNDWATER MONITORING EVENTS**

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-64882-1

Client Project/Site: 837 Industrial Road

For:

PES Environmental, Inc.

1682 Novato Boulevard

Suite 100

Novato, California 94947-7021

Attn: Mr. Chris Baldassari



---

Authorized for release by:

5/26/2015 3:58:03 PM

Afsaneh Salimpour, Senior Project Manager

(925)484-1919

[afsaneh.salimpour@testamericainc.com](mailto:afsaneh.salimpour@testamericainc.com)

### LINKS

Review your project  
results through

Total Access

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

# Table of Contents

Cover Page .....	1
Table of Contents .....	2
Definitions/Glossary .....	3
Case Narrative .....	4
Detection Summary .....	5
Client Sample Results .....	6
Surrogate Summary .....	11
QC Sample Results .....	13
QC Association Summary .....	28
Lab Chronicle .....	30
Certification Summary .....	31
Method Summary .....	32
Sample Summary .....	33
Chain of Custody .....	34
Receipt Checklists .....	35

# Definitions/Glossary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Glossary

**Abbreviation** These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Job ID: 720-64882-1

Laboratory: TestAmerica Pleasanton

### Narrative

#### Job Narrative 720-64882-1

### Comments

No additional comments.

### Receipt

The samples were received on 5/18/2015 5:54 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.3° C, 2.3° C and 2.4° C.

### GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Detection Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

**Client Sample ID: MW-1**

**Lab Sample ID: 720-64882-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.1		0.50		ug/L	1		8260B/CA_LUFT	Total/NA
					MS				
Carbon tetrachloride	4.6		0.50		ug/L	1		8260B/CA_LUFT	Total/NA
					MS				
Chloroform	12		1.0		ug/L	1		8260B/CA_LUFT	Total/NA
					MS				
1,1-Dichloroethane	0.73		0.50		ug/L	1		8260B/CA_LUFT	Total/NA
					MS				
1,2-Dichloroethane	16		0.50		ug/L	1		8260B/CA_LUFT	Total/NA
					MS				
1,1-Dichloroethene	1.7		0.50		ug/L	1		8260B/CA_LUFT	Total/NA
					MS				
cis-1,2-Dichloroethene	6.8		0.50		ug/L	1		8260B/CA_LUFT	Total/NA
					MS				
Tetrachloroethene	280		5.0		ug/L	10		8260B/CA_LUFT	Total/NA
					MS				
Trichloroethene	59		0.50		ug/L	1		8260B/CA_LUFT	Total/NA
					MS				
Trichlorofluoromethane	21		1.0		ug/L	1		8260B/CA_LUFT	Total/NA
					MS				
1,1,2-Trichloro-1,2,2-trifluoroethane	25		0.50		ug/L	1		8260B/CA_LUFT	Total/NA
					MS				
Vinyl chloride	3.7		0.50		ug/L	1		8260B/CA_LUFT	Total/NA
					MS				

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Client Sample ID: MW-1**

**Date Collected: 05/15/15 13:55**

**Date Received: 05/18/15 17:54**

**Lab Sample ID: 720-64882-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	1.1		0.50		ug/L			05/20/15 05:45	1
Acetone	ND		50		ug/L			05/20/15 05:45	1
Benzene	ND		0.50		ug/L			05/20/15 05:45	1
Dichlorobromomethane	ND		0.50		ug/L			05/20/15 05:45	1
Bromobenzene	ND		1.0		ug/L			05/20/15 05:45	1
Chlorobromomethane	ND		1.0		ug/L			05/20/15 05:45	1
Bromoform	ND		1.0		ug/L			05/20/15 05:45	1
Bromomethane	ND		1.0		ug/L			05/20/15 05:45	1
2-Butanone (MEK)	ND		50		ug/L			05/20/15 05:45	1
n-Butylbenzene	ND		1.0		ug/L			05/20/15 05:45	1
sec-Butylbenzene	ND		1.0		ug/L			05/20/15 05:45	1
tert-Butylbenzene	ND		1.0		ug/L			05/20/15 05:45	1
Carbon disulfide	ND		5.0		ug/L			05/20/15 05:45	1
<b>Carbon tetrachloride</b>	<b>4.6</b>		0.50		ug/L			05/20/15 05:45	1
Chlorobenzene	ND		0.50		ug/L			05/20/15 05:45	1
Chloroethane	ND		1.0		ug/L			05/20/15 05:45	1
<b>Chloroform</b>	<b>12</b>		1.0		ug/L			05/20/15 05:45	1
Chloromethane	ND		1.0		ug/L			05/20/15 05:45	1
2-Chlorotoluene	ND		0.50		ug/L			05/20/15 05:45	1
4-Chlorotoluene	ND		0.50		ug/L			05/20/15 05:45	1
Chlorodibromomethane	ND		0.50		ug/L			05/20/15 05:45	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/20/15 05:45	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/20/15 05:45	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/20/15 05:45	1
1,3-Dichloropropane	ND		1.0		ug/L			05/20/15 05:45	1
1,1-Dichloropropene	ND		0.50		ug/L			05/20/15 05:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/20/15 05:45	1
Ethylene Dibromide	ND		0.50		ug/L			05/20/15 05:45	1
Dibromomethane	ND		0.50		ug/L			05/20/15 05:45	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/20/15 05:45	1
<b>1,1-Dichloroethane</b>	<b>0.73</b>		0.50		ug/L			05/20/15 05:45	1
<b>1,2-Dichloroethane</b>	<b>16</b>		0.50		ug/L			05/20/15 05:45	1
<b>1,1-Dichloroethene</b>	<b>1.7</b>		0.50		ug/L			05/20/15 05:45	1
<b>cis-1,2-Dichloroethene</b>	<b>6.8</b>		0.50		ug/L			05/20/15 05:45	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/20/15 05:45	1
1,2-Dichloropropane	ND		0.50		ug/L			05/20/15 05:45	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/20/15 05:45	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/20/15 05:45	1
Ethylbenzene	ND		0.50		ug/L			05/20/15 05:45	1
Hexachlorobutadiene	ND		1.0		ug/L			05/20/15 05:45	1
2-Hexanone	ND		50		ug/L			05/20/15 05:45	1
Isopropylbenzene	ND		0.50		ug/L			05/20/15 05:45	1
4-Isopropyltoluene	ND		1.0		ug/L			05/20/15 05:45	1
Methylene Chloride	ND		5.0		ug/L			05/20/15 05:45	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/20/15 05:45	1
Naphthalene	ND		1.0		ug/L			05/20/15 05:45	1
N-Propylbenzene	ND		1.0		ug/L			05/20/15 05:45	1
Styrene	ND		0.50		ug/L			05/20/15 05:45	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/20/15 05:45	1

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## **Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

**Client Sample ID: MW-1**

**Date Collected: 05/15/15 13:55**

**Date Received: 05/18/15 17:54**

**Lab Sample ID: 720-64882-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L		05/20/15 05:45		1
<b>Tetrachloroethene</b>	<b>280</b>		5.0		ug/L		05/22/15 14:06		10
Toluene	ND		0.50		ug/L		05/20/15 05:45		1
1,2,3-Trichlorobenzene	ND		1.0		ug/L		05/20/15 05:45		1
1,2,4-Trichlorobenzene	ND		1.0		ug/L		05/20/15 05:45		1
1,1,1-Trichloroethane	ND		0.50		ug/L		05/20/15 05:45		1
1,1,2-Trichloroethane	ND		0.50		ug/L		05/20/15 05:45		1
<b>Trichloroethene</b>	<b>59</b>		0.50		ug/L		05/20/15 05:45		1
<b>Trichlorofluoromethane</b>	<b>21</b>		1.0		ug/L		05/20/15 05:45		1
1,2,3-Trichloropropane	ND		0.50		ug/L		05/20/15 05:45		1
<b>1,1,2-Trichloro-1,2,2-trifluoroethane</b>	<b>25</b>		0.50		ug/L		05/20/15 05:45		1
1,2,4-Trimethylbenzene	ND		0.50		ug/L		05/20/15 05:45		1
1,3,5-Trimethylbenzene	ND		0.50		ug/L		05/20/15 05:45		1
Vinyl acetate	ND		10		ug/L		05/20/15 05:45		1
<b>Vinyl chloride</b>	<b>3.7</b>		0.50		ug/L		05/20/15 05:45		1
Xylenes, Total	ND		1.0		ug/L		05/20/15 05:45		1
2,2-Dichloropropane	ND		0.50		ug/L		05/20/15 05:45		1
Gasoline Range Organics (GRO) -C5-C12	ND		500		ug/L		05/22/15 14:06		10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	103		67 - 130				05/20/15 05:45		1
4-Bromofluorobenzene	109		67 - 130				05/22/15 14:06		10
1,2-Dichloroethane-d4 (Surr)	105		72 - 130				05/20/15 05:45		1
1,2-Dichloroethane-d4 (Surr)	114		72 - 130				05/22/15 14:06		10
Toluene-d8 (Surr)	101		70 - 130				05/20/15 05:45		1
Toluene-d8 (Surr)	100		70 - 130				05/22/15 14:06		10

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: MW-1**

**Date Collected: 05/15/15 13:55**

**Date Received: 05/18/15 17:54**

**Lab Sample ID: 720-64882-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Acenaphthylene	ND		4.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Acenaphthene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Fluorene	ND		4.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Phenanthrene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Anthracene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Fluoranthene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Pyrene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Benzo[a]anthracene	ND		5.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Chrysene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Benzo[b]fluoranthene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Benzo[k]fluoranthene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Benzo[a]pyrene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Indeno[1,2,3-cd]pyrene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Benzo[g,h,i]perylene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
2-Methylnaphthalene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Dibenz(a,h)anthracene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	58		11 - 92				05/21/15 10:10	05/23/15 00:46	1
2-Fluorobiphenyl	78		10 - 101				05/21/15 10:10	05/23/15 00:46	1
Terphenyl-d14	86		34 - 128				05/21/15 10:10	05/23/15 00:46	1

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

**Client Sample ID: MW-1**

**Date Collected: 05/15/15 13:55**

**Date Received: 05/18/15 17:54**

**Lab Sample ID: 720-64882-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		05/20/15 10:17	05/21/15 01:12	1
Motor Oil Range Organics [C24-C36]	ND		100		ug/L		05/20/15 10:17	05/21/15 01:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				05/20/15 10:17	05/21/15 01:12	1
p-Terphenyl	91		31 - 150				05/20/15 10:17	05/21/15 01:12	1

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Client Sample ID: MW-1**

**Date Collected: 05/15/15 13:55**

**Date Received: 05/18/15 17:54**

**Lab Sample ID: 720-64882-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52		ug/L		05/21/15 10:04	05/22/15 00:43	1
PCB-1221	ND		0.52		ug/L		05/21/15 10:04	05/22/15 00:43	1
PCB-1232	ND		0.52		ug/L		05/21/15 10:04	05/22/15 00:43	1
PCB-1242	ND		0.52		ug/L		05/21/15 10:04	05/22/15 00:43	1
PCB-1248	ND		0.52		ug/L		05/21/15 10:04	05/22/15 00:43	1
PCB-1254	ND		0.52		ug/L		05/21/15 10:04	05/22/15 00:43	1
PCB-1260	ND		0.52		ug/L		05/21/15 10:04	05/22/15 00:43	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene</i>		68		19 - 98			05/21/15 10:04	05/22/15 00:43	1
<i>DCB Decachlorobiphenyl</i>		43		10 - 122			05/21/15 10:04	05/22/15 00:43	1

TestAmerica Pleasanton

# Surrogate Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-64882-1	MW-1	103	105	101
720-64882-1	MW-1	109	114	100
LCS 720-182039/5	Lab Control Sample	101	99	102
LCS 720-182039/7	Lab Control Sample	103	105	102
LCS 720-182221/5	Lab Control Sample	107	107	101
LCS 720-182221/7	Lab Control Sample	109	113	100
LCSD 720-182039/6	Lab Control Sample Dup	100	101	103
LCSD 720-182039/8	Lab Control Sample Dup	106	105	102
LCSD 720-182221/6	Lab Control Sample Dup	108	107	101
LCSD 720-182221/8	Lab Control Sample Dup	110	117	100
MB 720-182039/4	Method Blank	102	102	101
MB 720-182221/4	Method Blank	107	113	99

### Surrogate Legend

BFB = 4-Bromofluorobenzene

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (11-92)	FBP (10-101)	TPH (34-128)
720-64882-1	MW-1	58	78	86
LCS 720-182162/2-A	Lab Control Sample	55	63	88
LCSD 720-182162/3-A	Lab Control Sample Dup	60	71	87
MB 720-182162/1-A	Method Blank	49	63	80

### Surrogate Legend

NBZ = Nitrobenzene-d5

FBP = 2-Fluorobiphenyl

TPH = Terphenyl-d14

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Silica Gel Cleanup

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		NDA1 (0-5)	PTP1 (31-150)
720-64882-1	MW-1	0	91
LCS 720-182079/2-A	Lab Control Sample		103
LCSD 720-182079/3-A	Lab Control Sample Dup		105
MB 720-182079/1-A	Method Blank	0	94

### Surrogate Legend

NDA = Capric Acid (Surr)

PTP = p-Terphenyl

TestAmerica Pleasanton

# Surrogate Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (19-98)	DCB1 (10-122)
720-64882-1	MW-1	68	43
LCS 720-182161/2-A	Lab Control Sample	79	82
LCSD 720-182161/3-A	Lab Control Sample Dup	71	76
MB 720-182161/1-A	Method Blank	81	77

### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Lab Sample ID: MB 720-182039/4**

**Matrix: Water**

**Analysis Batch: 182039**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/19/15 19:32	1
Acetone	ND		50		ug/L			05/19/15 19:32	1
Benzene	ND		0.50		ug/L			05/19/15 19:32	1
Dichlorobromomethane	ND		0.50		ug/L			05/19/15 19:32	1
Bromobenzene	ND		1.0		ug/L			05/19/15 19:32	1
Chlorobromomethane	ND		1.0		ug/L			05/19/15 19:32	1
Bromoform	ND		1.0		ug/L			05/19/15 19:32	1
Bromomethane	ND		1.0		ug/L			05/19/15 19:32	1
2-Butanone (MEK)	ND		50		ug/L			05/19/15 19:32	1
n-Butylbenzene	ND		1.0		ug/L			05/19/15 19:32	1
sec-Butylbenzene	ND		1.0		ug/L			05/19/15 19:32	1
tert-Butylbenzene	ND		1.0		ug/L			05/19/15 19:32	1
Carbon disulfide	ND		5.0		ug/L			05/19/15 19:32	1
Carbon tetrachloride	ND		0.50		ug/L			05/19/15 19:32	1
Chlorobenzene	ND		0.50		ug/L			05/19/15 19:32	1
Chloroethane	ND		1.0		ug/L			05/19/15 19:32	1
Chloroform	ND		1.0		ug/L			05/19/15 19:32	1
Chloromethane	ND		1.0		ug/L			05/19/15 19:32	1
2-Chlorotoluene	ND		0.50		ug/L			05/19/15 19:32	1
4-Chlorotoluene	ND		0.50		ug/L			05/19/15 19:32	1
Chlorodibromomethane	ND		0.50		ug/L			05/19/15 19:32	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/19/15 19:32	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/19/15 19:32	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/19/15 19:32	1
1,3-Dichloropropane	ND		1.0		ug/L			05/19/15 19:32	1
1,1-Dichloropropene	ND		0.50		ug/L			05/19/15 19:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			05/19/15 19:32	1
Ethylene Dibromide	ND		0.50		ug/L			05/19/15 19:32	1
Dibromomethane	ND		0.50		ug/L			05/19/15 19:32	1
Dichlorodifluoromethane	ND		0.50		ug/L			05/19/15 19:32	1
1,1-Dichloroethane	ND		0.50		ug/L			05/19/15 19:32	1
1,2-Dichloroethane	ND		0.50		ug/L			05/19/15 19:32	1
1,1-Dichloroethene	ND		0.50		ug/L			05/19/15 19:32	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			05/19/15 19:32	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			05/19/15 19:32	1
1,2-Dichloropropane	ND		0.50		ug/L			05/19/15 19:32	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			05/19/15 19:32	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			05/19/15 19:32	1
Ethylbenzene	ND		0.50		ug/L			05/19/15 19:32	1
Hexachlorobutadiene	ND		1.0		ug/L			05/19/15 19:32	1
2-Hexanone	ND		50		ug/L			05/19/15 19:32	1
Isopropylbenzene	ND		0.50		ug/L			05/19/15 19:32	1
4-Isopropyltoluene	ND		1.0		ug/L			05/19/15 19:32	1
Methylene Chloride	ND		5.0		ug/L			05/19/15 19:32	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			05/19/15 19:32	1
Naphthalene	ND		1.0		ug/L			05/19/15 19:32	1
N-Propylbenzene	ND		1.0		ug/L			05/19/15 19:32	1
Styrene	ND		0.50		ug/L			05/19/15 19:32	1

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-182039/4**

**Matrix: Water**

**Analysis Batch: 182039**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			05/19/15 19:32	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			05/19/15 19:32	1
Tetrachloroethene	ND		0.50		ug/L			05/19/15 19:32	1
Toluene	ND		0.50		ug/L			05/19/15 19:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			05/19/15 19:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			05/19/15 19:32	1
1,1,1-Trichloroethane	ND		0.50		ug/L			05/19/15 19:32	1
1,1,2-Trichloroethane	ND		0.50		ug/L			05/19/15 19:32	1
Trichloroethene	ND		0.50		ug/L			05/19/15 19:32	1
Trichlorofluoromethane	ND		1.0		ug/L			05/19/15 19:32	1
1,2,3-Trichloropropane	ND		0.50		ug/L			05/19/15 19:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			05/19/15 19:32	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			05/19/15 19:32	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			05/19/15 19:32	1
Vinyl acetate	ND		10		ug/L			05/19/15 19:32	1
Vinyl chloride	ND		0.50		ug/L			05/19/15 19:32	1
Xylenes, Total	ND		1.0		ug/L			05/19/15 19:32	1
2,2-Dichloropropane	ND		0.50		ug/L			05/19/15 19:32	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/19/15 19:32	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		67 - 130		05/19/15 19:32	1
1,2-Dichloroethane-d4 (Surr)	102		72 - 130		05/19/15 19:32	1
Toluene-d8 (Surr)	101		70 - 130		05/19/15 19:32	1

**Lab Sample ID: LCS 720-182039/5**

**Matrix: Water**

**Analysis Batch: 182039**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Methyl tert-butyl ether	25.0	24.4		ug/L		98	62 - 130
Acetone	125	107		ug/L		86	26 - 180
Benzene	25.0	24.3		ug/L		97	79 - 130
Dichlorobromomethane	25.0	25.1		ug/L		101	70 - 130
Bromobenzene	25.0	26.1		ug/L		104	70 - 130
Chlorobromomethane	25.0	25.0		ug/L		100	70 - 130
Bromoform	25.0	26.2		ug/L		105	68 - 136
Bromomethane	25.0	24.7		ug/L		99	43 - 151
2-Butanone (MEK)	125	111		ug/L		89	54 - 130
n-Butylbenzene	25.0	24.9		ug/L		100	70 - 142
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 134
tert-Butylbenzene	25.0	25.5		ug/L		102	70 - 135
Carbon disulfide	25.0	22.1		ug/L		89	58 - 130
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 146
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130
Chloroethane	25.0	24.5		ug/L		98	62 - 138
Chloroform	25.0	24.8		ug/L		99	70 - 130

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-182039/5**

**Matrix: Water**

**Analysis Batch: 182039**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier						
Chloromethane	25.0	22.7		ug/L		91	52 - 175		
2-Chlorotoluene	25.0	25.5		ug/L		102	70 - 130		
4-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130		
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 145		
1,2-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130		
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130		
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130		
1,3-Dichloropropane	25.0	24.9		ug/L		100	70 - 130		
1,1-Dichloropropene	25.0	26.0		ug/L		104	70 - 130		
1,2-Dibromo-3-Chloropropane	25.0	23.4		ug/L		94	70 - 136		
Ethylene Dibromide	25.0	25.3		ug/L		101	70 - 130		
Dibromomethane	25.0	24.9		ug/L		100	70 - 130		
Dichlorodifluoromethane	25.0	22.0		ug/L		88	34 - 132		
1,1-Dichloroethane	25.0	24.4		ug/L		97	70 - 130		
1,2-Dichloroethane	25.0	24.0		ug/L		96	61 - 132		
1,1-Dichloroethene	25.0	20.9		ug/L		83	64 - 128		
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	70 - 130		
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	68 - 130		
1,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 130		
cis-1,3-Dichloropropene	25.0	26.3		ug/L		105	70 - 130		
trans-1,3-Dichloropropene	25.0	28.1		ug/L		112	70 - 140		
Ethylbenzene	25.0	25.2		ug/L		101	80 - 120		
Hexachlorobutadiene	25.0	23.2		ug/L		93	70 - 130		
2-Hexanone	125	111		ug/L		88	60 - 164		
Isopropylbenzene	25.0	25.0		ug/L		100	70 - 130		
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130		
Methylene Chloride	25.0	22.7		ug/L		91	70 - 147		
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	58 - 130		
Naphthalene	25.0	22.4		ug/L		90	70 - 130		
N-Propylbenzene	25.0	25.6		ug/L		103	70 - 130		
Styrene	25.0	24.5		ug/L		98	70 - 130		
1,1,1,2-Tetrachloroethane	25.0	26.1		ug/L		105	70 - 130		
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130		
Tetrachloroethene	25.0	25.4		ug/L		102	70 - 130		
Toluene	25.0	25.0		ug/L		100	78 - 120		
1,2,3-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130		
1,2,4-Trichlorobenzene	25.0	24.3		ug/L		97	70 - 130		
1,1,1-Trichloroethane	25.0	24.7		ug/L		99	70 - 130		
1,1,2-Trichloroethane	25.0	24.4		ug/L		98	70 - 130		
Trichloroethene	25.0	25.4		ug/L		102	70 - 130		
Trichlorofluoromethane	25.0	23.3		ug/L		93	66 - 132		
1,2,3-Trichloropropane	25.0	25.6		ug/L		102	70 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.2		ug/L		89	42 - 162		
1,2,4-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 132		
1,3,5-Trimethylbenzene	25.0	25.6		ug/L		102	70 - 130		
Vinyl acetate	25.0	23.9		ug/L		96	43 - 163		
Vinyl chloride	25.0	23.2		ug/L		93	54 - 135		

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-182039/5**

**Matrix: Water**

**Analysis Batch: 182039**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 142
o-Xylene	25.0	25.0		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	26.2		ug/L		105	70 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	101		67 - 130
1,2-Dichloroethane-d4 (Surr)	99		72 - 130
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: LCS 720-182039/7**

**Matrix: Water**

**Analysis Batch: 182039**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Gasoline Range Organics (GRO) -C5-C12	500	485		ug/L		97	62 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	103		67 - 130
1,2-Dichloroethane-d4 (Surr)	105		72 - 130
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: LCSD 720-182039/6**

**Matrix: Water**

**Analysis Batch: 182039**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Added	Result	Qualifier						
Methyl tert-butyl ether	25.0	25.1		ug/L		100	62 - 130	3	20
Acetone	125	111		ug/L		88	26 - 180	3	30
Benzene	25.0	24.5		ug/L		98	79 - 130	1	20
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130	2	20
Bromobenzene	25.0	27.0		ug/L		108	70 - 130	3	20
Chlorobromomethane	25.0	25.9		ug/L		103	70 - 130	4	20
Bromoform	25.0	26.9		ug/L		107	68 - 136	2	20
Bromomethane	25.0	24.5		ug/L		98	43 - 151	1	20
2-Butanone (MEK)	125	113		ug/L		91	54 - 130	2	20
n-Butylbenzene	25.0	24.8		ug/L		99	70 - 142	0	20
sec-Butylbenzene	25.0	25.2		ug/L		101	70 - 134	1	20
tert-Butylbenzene	25.0	25.5		ug/L		102	70 - 135	0	20
Carbon disulfide	25.0	21.8		ug/L		87	58 - 130	2	20
Carbon tetrachloride	25.0	25.1		ug/L		101	70 - 146	0	20
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130	2	20
Chloroethane	25.0	24.2		ug/L		97	62 - 138	1	20
Chloroform	25.0	25.3		ug/L		101	70 - 130	2	20
Chloromethane	25.0	22.2		ug/L		89	52 - 175	2	20
2-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130	2	20
4-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130	1	20
Chlorodibromomethane	25.0	26.8		ug/L		107	70 - 145	3	20

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-182039/6

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 182039

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
1,2-Dichlorobenzene	25.0	26.0		ug/L	104	70 - 130	3	20	
1,3-Dichlorobenzene	25.0	25.6		ug/L	103	70 - 130	1	20	
1,4-Dichlorobenzene	25.0	25.8		ug/L	103	70 - 130	2	20	
1,3-Dichloropropane	25.0	25.1		ug/L	100	70 - 130	1	20	
1,1-Dichloropropene	25.0	26.0		ug/L	104	70 - 130	0	20	
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L	99	70 - 136	5	20	
Ethylene Dibromide	25.0	25.7		ug/L	103	70 - 130	1	20	
Dibromomethane	25.0	25.6		ug/L	102	70 - 130	3	20	
Dichlorodifluoromethane	25.0	21.1		ug/L	84	34 - 132	4	20	
1,1-Dichloroethane	25.0	24.5		ug/L	98	70 - 130	1	20	
1,2-Dichloroethane	25.0	24.8		ug/L	99	61 - 132	3	20	
1,1-Dichloroethene	25.0	20.6		ug/L	82	64 - 128	1	20	
cis-1,2-Dichloroethene	25.0	25.1		ug/L	100	70 - 130	3	20	
trans-1,2-Dichloroethene	25.0	23.2		ug/L	93	68 - 130	0	20	
1,2-Dichloropropane	25.0	24.8		ug/L	99	70 - 130	4	20	
cis-1,3-Dichloropropene	25.0	27.0		ug/L	108	70 - 130	3	20	
trans-1,3-Dichloropropene	25.0	29.0		ug/L	116	70 - 140	3	20	
Ethylbenzene	25.0	25.3		ug/L	101	80 - 120	0	20	
Hexachlorobutadiene	25.0	23.4		ug/L	94	70 - 130	1	20	
2-Hexanone	125	113		ug/L	90	60 - 164	2	20	
Isopropylbenzene	25.0	25.2		ug/L	101	70 - 130	1	20	
4-Isopropyltoluene	25.0	25.0		ug/L	100	70 - 130	0	20	
Methylene Chloride	25.0	22.7		ug/L	91	70 - 147	0	20	
4-Methyl-2-pentanone (MIBK)	125	114		ug/L	91	58 - 130	3	20	
Naphthalene	25.0	23.7		ug/L	95	70 - 130	5	20	
N-Propylbenzene	25.0	25.8		ug/L	103	70 - 130	1	20	
Styrene	25.0	24.9		ug/L	100	70 - 130	1	20	
1,1,1,2-Tetrachloroethane	25.0	26.7		ug/L	107	70 - 130	2	20	
1,1,2,2-Tetrachloroethane	25.0	24.8		ug/L	99	70 - 130	4	20	
Tetrachloroethene	25.0	25.5		ug/L	102	70 - 130	1	20	
Toluene	25.0	25.6		ug/L	102	78 - 120	2	20	
1,2,3-Trichlorobenzene	25.0	23.6		ug/L	94	70 - 130	3	20	
1,2,4-Trichlorobenzene	25.0	24.7		ug/L	99	70 - 130	2	20	
1,1,1-Trichloroethane	25.0	24.7		ug/L	99	70 - 130	0	20	
1,1,2-Trichloroethane	25.0	25.1		ug/L	100	70 - 130	3	20	
Trichloroethene	25.0	25.6		ug/L	102	70 - 130	1	20	
Trichlorofluoromethane	25.0	22.4		ug/L	89	66 - 132	4	20	
1,2,3-Trichloropropane	25.0	26.5		ug/L	106	70 - 130	4	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.6		ug/L	86	42 - 162	3	20	
1,2,4-Trimethylbenzene	25.0	25.5		ug/L	102	70 - 132	0	20	
1,3,5-Trimethylbenzene	25.0	26.0		ug/L	104	70 - 130	1	20	
Vinyl acetate	25.0	24.6		ug/L	99	43 - 163	3	20	
Vinyl chloride	25.0	23.0		ug/L	92	54 - 135	1	20	
m-Xylene & p-Xylene	25.0	25.4		ug/L	101	70 - 142	1	20	
o-Xylene	25.0	25.4		ug/L	101	70 - 130	2	20	
2,2-Dichloropropane	25.0	26.8		ug/L	107	70 - 140	2	20	

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID:** LCSD 720-182039/6

**Matrix:** Water

**Analysis Batch:** 182039

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	100		67 - 130
1,2-Dichloroethane-d4 (Surr)	101		72 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID:** LCSD 720-182039/8

**Matrix:** Water

**Analysis Batch:** 182039

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD
				ug/L	95	Limits	20
Gasoline Range Organics (GRO) -C5-C12	500	474				62 - 120	2

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	106		67 - 130
1,2-Dichloroethane-d4 (Surr)	105		72 - 130
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID:** MB 720-182221/4

**Matrix:** Water

**Analysis Batch:** 182221

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			05/22/15 08:55	1
Acetone	ND		50		ug/L			05/22/15 08:55	1
Benzene	ND		0.50		ug/L			05/22/15 08:55	1
Dichlorobromomethane	ND		0.50		ug/L			05/22/15 08:55	1
Bromobenzene	ND		1.0		ug/L			05/22/15 08:55	1
Chlorobromomethane	ND		1.0		ug/L			05/22/15 08:55	1
Bromoform	ND		1.0		ug/L			05/22/15 08:55	1
Bromomethane	ND		1.0		ug/L			05/22/15 08:55	1
2-Butanone (MEK)	ND		50		ug/L			05/22/15 08:55	1
n-Butylbenzene	ND		1.0		ug/L			05/22/15 08:55	1
sec-Butylbenzene	ND		1.0		ug/L			05/22/15 08:55	1
tert-Butylbenzene	ND		1.0		ug/L			05/22/15 08:55	1
Carbon disulfide	ND		5.0		ug/L			05/22/15 08:55	1
Carbon tetrachloride	ND		0.50		ug/L			05/22/15 08:55	1
Chlorobenzene	ND		0.50		ug/L			05/22/15 08:55	1
Chloroethane	ND		1.0		ug/L			05/22/15 08:55	1
Chloroform	ND		1.0		ug/L			05/22/15 08:55	1
Chloromethane	ND		1.0		ug/L			05/22/15 08:55	1
2-Chlorotoluene	ND		0.50		ug/L			05/22/15 08:55	1
4-Chlorotoluene	ND		0.50		ug/L			05/22/15 08:55	1
Chlorodibromomethane	ND		0.50		ug/L			05/22/15 08:55	1
1,2-Dichlorobenzene	ND		0.50		ug/L			05/22/15 08:55	1
1,3-Dichlorobenzene	ND		0.50		ug/L			05/22/15 08:55	1
1,4-Dichlorobenzene	ND		0.50		ug/L			05/22/15 08:55	1
1,3-Dichloropropane	ND		1.0		ug/L			05/22/15 08:55	1
1,1-Dichloropropene	ND		0.50		ug/L			05/22/15 08:55	1

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-182221/4**

**Matrix: Water**

**Analysis Batch: 182221**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L		05/22/15 08:55		1
Ethylene Dibromide	ND		0.50		ug/L		05/22/15 08:55		1
Dibromomethane	ND		0.50		ug/L		05/22/15 08:55		1
Dichlorodifluoromethane	ND		0.50		ug/L		05/22/15 08:55		1
1,1-Dichloroethane	ND		0.50		ug/L		05/22/15 08:55		1
1,2-Dichloroethane	ND		0.50		ug/L		05/22/15 08:55		1
1,1-Dichloroethene	ND		0.50		ug/L		05/22/15 08:55		1
cis-1,2-Dichloroethene	ND		0.50		ug/L		05/22/15 08:55		1
trans-1,2-Dichloroethene	ND		0.50		ug/L		05/22/15 08:55		1
1,2-Dichloropropane	ND		0.50		ug/L		05/22/15 08:55		1
cis-1,3-Dichloropropene	ND		0.50		ug/L		05/22/15 08:55		1
trans-1,3-Dichloropropene	ND		0.50		ug/L		05/22/15 08:55		1
Ethylbenzene	ND		0.50		ug/L		05/22/15 08:55		1
Hexachlorobutadiene	ND		1.0		ug/L		05/22/15 08:55		1
2-Hexanone	ND		50		ug/L		05/22/15 08:55		1
Isopropylbenzene	ND		0.50		ug/L		05/22/15 08:55		1
4-Isopropyltoluene	ND		1.0		ug/L		05/22/15 08:55		1
Methylene Chloride	ND		5.0		ug/L		05/22/15 08:55		1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L		05/22/15 08:55		1
Naphthalene	ND		1.0		ug/L		05/22/15 08:55		1
N-Propylbenzene	ND		1.0		ug/L		05/22/15 08:55		1
Styrene	ND		0.50		ug/L		05/22/15 08:55		1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L		05/22/15 08:55		1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L		05/22/15 08:55		1
Tetrachloroethene	ND		0.50		ug/L		05/22/15 08:55		1
Toluene	ND		0.50		ug/L		05/22/15 08:55		1
1,2,3-Trichlorobenzene	ND		1.0		ug/L		05/22/15 08:55		1
1,2,4-Trichlorobenzene	ND		1.0		ug/L		05/22/15 08:55		1
1,1,1-Trichloroethane	ND		0.50		ug/L		05/22/15 08:55		1
1,1,2-Trichloroethane	ND		0.50		ug/L		05/22/15 08:55		1
Trichloroethene	ND		0.50		ug/L		05/22/15 08:55		1
Trichlorofluoromethane	ND		1.0		ug/L		05/22/15 08:55		1
1,2,3-Trichloropropane	ND		0.50		ug/L		05/22/15 08:55		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L		05/22/15 08:55		1
1,2,4-Trimethylbenzene	ND		0.50		ug/L		05/22/15 08:55		1
1,3,5-Trimethylbenzene	ND		0.50		ug/L		05/22/15 08:55		1
Vinyl acetate	ND		10		ug/L		05/22/15 08:55		1
Vinyl chloride	ND		0.50		ug/L		05/22/15 08:55		1
Xylenes, Total	ND		1.0		ug/L		05/22/15 08:55		1
2,2-Dichloropropane	ND		0.50		ug/L		05/22/15 08:55		1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L		05/22/15 08:55		1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	107		67 - 130		05/22/15 08:55	1
1,2-Dichloroethane-d4 (Surr)	113		72 - 130		05/22/15 08:55	1
Toluene-d8 (Surr)	99		70 - 130		05/22/15 08:55	1

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-182221/5**

**Matrix: Water**

**Analysis Batch: 182221**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	26.6		ug/L		106	62 - 130
Acetone	125	158		ug/L		126	26 - 180
Benzene	25.0	26.7		ug/L		107	79 - 130
Dichlorobromomethane	25.0	26.6		ug/L		106	70 - 130
Bromobenzene	25.0	24.3		ug/L		97	70 - 130
Chlorobromomethane	25.0	23.1		ug/L		92	70 - 130
Bromoform	25.0	23.8		ug/L		95	68 - 136
Bromomethane	25.0	24.7		ug/L		99	43 - 151
2-Butanone (MEK)	125	145		ug/L		116	54 - 130
n-Butylbenzene	25.0	28.4		ug/L		114	70 - 142
sec-Butylbenzene	25.0	26.7		ug/L		107	70 - 134
tert-Butylbenzene	25.0	26.5		ug/L		106	70 - 135
Carbon disulfide	25.0	25.1		ug/L		100	58 - 130
Carbon tetrachloride	25.0	26.9		ug/L		108	70 - 146
Chlorobenzene	25.0	26.1		ug/L		104	70 - 130
Chloroethane	25.0	27.9		ug/L		112	62 - 138
Chloroform	25.0	26.2		ug/L		105	70 - 130
Chloromethane	25.0	29.2		ug/L		117	52 - 175
2-Chlorotoluene	25.0	27.6		ug/L		110	70 - 130
4-Chlorotoluene	25.0	27.9		ug/L		111	70 - 130
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 145
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,3-Dichloropropane	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloropropene	25.0	29.3		ug/L		117	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.1		ug/L		100	70 - 136
Ethylene Dibromide	25.0	25.1		ug/L		100	70 - 130
Dibromomethane	25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	27.1		ug/L		108	34 - 132
1,1-Dichloroethane	25.0	28.2		ug/L		113	70 - 130
1,2-Dichloroethane	25.0	27.3		ug/L		109	61 - 132
1,1-Dichloroethene	25.0	23.3		ug/L		93	64 - 128
cis-1,2-Dichloroethene	25.0	27.8		ug/L		111	70 - 130
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	68 - 130
1,2-Dichloropropane	25.0	28.2		ug/L		113	70 - 130
cis-1,3-Dichloropropene	25.0	29.1		ug/L		116	70 - 130
trans-1,3-Dichloropropene	25.0	31.0		ug/L		124	70 - 140
Ethylbenzene	25.0	27.2		ug/L		109	80 - 120
Hexachlorobutadiene	25.0	24.7		ug/L		99	70 - 130
2-Hexanone	125	150		ug/L		120	60 - 164
Isopropylbenzene	25.0	26.6		ug/L		106	70 - 130
4-Isopropyltoluene	25.0	26.1		ug/L		105	70 - 130
Methylene Chloride	25.0	24.0		ug/L		96	70 - 147
4-Methyl-2-pentanone (MIBK)	125	153		ug/L		122	58 - 130
Naphthalene	25.0	25.0		ug/L		100	70 - 130
N-Propylbenzene	25.0	27.8		ug/L		111	70 - 130
Styrene	25.0	26.1		ug/L		105	70 - 130

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-182221/5**

**Matrix: Water**

**Analysis Batch: 182221**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
1,1,1,2-Tetrachloroethane	25.0	26.6		ug/L		106	70 - 130	
1,1,2,2-Tetrachloroethane	25.0	27.6		ug/L		111	70 - 130	
Tetrachloroethene	25.0	24.1		ug/L		96	70 - 130	
Toluene	25.0	26.9		ug/L		108	78 - 120	
1,2,3-Trichlorobenzene	25.0	23.6		ug/L		94	70 - 130	
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	70 - 130	
1,1,1-Trichloroethane	25.0	26.4		ug/L		106	70 - 130	
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	70 - 130	
Trichloroethene	25.0	24.2		ug/L		97	70 - 130	
Trichlorofluoromethane	25.0	26.1		ug/L		105	66 - 132	
1,2,3-Trichloropropane	25.0	26.6		ug/L		106	70 - 130	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.4		ug/L		86	42 - 162	
ne								
1,2,4-Trimethylbenzene	25.0	27.3		ug/L		109	70 - 132	
1,3,5-Trimethylbenzene	25.0	27.7		ug/L		111	70 - 130	
Vinyl acetate	25.0	36.5		ug/L		146	43 - 163	
Vinyl chloride	25.0	24.3		ug/L		97	54 - 135	
m-Xylene & p-Xylene	25.0	27.4		ug/L		110	70 - 142	
o-Xylene	25.0	27.0		ug/L		108	70 - 130	
2,2-Dichloropropane	25.0	28.0		ug/L		112	70 - 140	

**LCS LCS**

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	107		67 - 130
1,2-Dichloroethane-d4 (Surr)	107		72 - 130
Toluene-d8 (Surr)	101		70 - 130

**Lab Sample ID: LCS 720-182221/7**

**Matrix: Water**

**Analysis Batch: 182221**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Gasoline Range Organics (GRO) -C5-C12	500	453		ug/L		91	62 - 120	

**LCS LCS**

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	109		67 - 130
1,2-Dichloroethane-d4 (Surr)	113		72 - 130
Toluene-d8 (Surr)	100		70 - 130

**Lab Sample ID: LCSD 720-182221/6**

**Matrix: Water**

**Analysis Batch: 182221**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD
Methyl tert-butyl ether	25.0	27.3		ug/L		109	62 - 130	2	20
Acetone	125	160		ug/L		128	26 - 180	1	30
Benzene	25.0	26.4		ug/L		106	79 - 130	1	20
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 130	0	20

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-182221/6

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 182221

Analyte	Spike	LCSD		Unit	D	%Rec.		RPD	RPD Limit
	Added	Result	Qualifier			%Rec	Limits		
Bromobenzene	25.0	24.3		ug/L	97	70 - 130		0	20
Chlorobromomethane	25.0	23.1		ug/L	92	70 - 130		0	20
Bromoform	25.0	24.9		ug/L	100	68 - 136		4	20
Bromomethane	25.0	23.8		ug/L	95	43 - 151		4	20
2-Butanone (MEK)	125	147		ug/L	118	54 - 130		1	20
n-Butylbenzene	25.0	27.8		ug/L	111	70 - 142		2	20
sec-Butylbenzene	25.0	26.3		ug/L	105	70 - 134		1	20
tert-Butylbenzene	25.0	26.1		ug/L	104	70 - 135		1	20
Carbon disulfide	25.0	24.8		ug/L	99	58 - 130		1	20
Carbon tetrachloride	25.0	26.7		ug/L	107	70 - 146		1	20
Chlorobenzene	25.0	26.0		ug/L	104	70 - 130		0	20
Chloroethane	25.0	26.4		ug/L	106	62 - 138		5	20
Chloroform	25.0	26.0		ug/L	104	70 - 130		1	20
Chloromethane	25.0	26.9		ug/L	108	52 - 175		8	20
2-Chlorotoluene	25.0	27.1		ug/L	108	70 - 130		2	20
4-Chlorotoluene	25.0	27.2		ug/L	109	70 - 130		2	20
Chlorodibromomethane	25.0	26.5		ug/L	106	70 - 145		2	20
1,2-Dichlorobenzene	25.0	24.7		ug/L	99	70 - 130		0	20
1,3-Dichlorobenzene	25.0	24.8		ug/L	99	70 - 130		2	20
1,4-Dichlorobenzene	25.0	24.7		ug/L	99	70 - 130		2	20
1,3-Dichloropropane	25.0	26.5		ug/L	106	70 - 130		1	20
1,1-Dichloropropene	25.0	29.0		ug/L	116	70 - 130		1	20
1,2-Dibromo-3-Chloropropane	25.0	26.6		ug/L	106	70 - 136		6	20
Ethylene Dibromide	25.0	25.7		ug/L	103	70 - 130		2	20
Dibromomethane	25.0	26.7		ug/L	107	70 - 130		2	20
Dichlorodifluoromethane	25.0	25.4		ug/L	102	34 - 132		6	20
1,1-Dichloroethane	25.0	27.8		ug/L	111	70 - 130		1	20
1,2-Dichloroethane	25.0	27.5		ug/L	110	61 - 132		0	20
1,1-Dichloroethene	25.0	23.0		ug/L	92	64 - 128		1	20
cis-1,2-Dichloroethene	25.0	27.5		ug/L	110	70 - 130		1	20
trans-1,2-Dichloroethene	25.0	25.2		ug/L	101	68 - 130		0	20
1,2-Dichloropropane	25.0	28.0		ug/L	112	70 - 130		1	20
cis-1,3-Dichloropropene	25.0	29.3		ug/L	117	70 - 130		1	20
trans-1,3-Dichloropropene	25.0	31.5		ug/L	126	70 - 140		2	20
Ethylbenzene	25.0	27.0		ug/L	108	80 - 120		1	20
Hexachlorobutadiene	25.0	24.5		ug/L	98	70 - 130		1	20
2-Hexanone	125	152		ug/L	122	60 - 164		1	20
Isopropylbenzene	25.0	26.3		ug/L	105	70 - 130		1	20
4-Isopropyltoluene	25.0	25.9		ug/L	103	70 - 130		1	20
Methylene Chloride	25.0	23.9		ug/L	96	70 - 147		0	20
4-Methyl-2-pentanone (MIBK)	125	153		ug/L	123	58 - 130		0	20
Naphthalene	25.0	26.3		ug/L	105	70 - 130		5	20
N-Propylbenzene	25.0	27.2		ug/L	109	70 - 130		2	20
Styrene	25.0	26.0		ug/L	104	70 - 130		0	20
1,1,1,2-Tetrachloroethane	25.0	26.7		ug/L	107	70 - 130		1	20
1,1,2,2-Tetrachloroethane	25.0	28.2		ug/L	113	70 - 130		2	20
Tetrachloroethene	25.0	23.8		ug/L	95	70 - 130		1	20
Toluene	25.0	26.7		ug/L	107	78 - 120		1	20

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCSD 720-182221/6**

**Matrix: Water**

**Analysis Batch: 182221**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		98	70 - 130	1	20
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	70 - 130	0	20
1,1,2-Trichloroethane	25.0	26.4		ug/L		106	70 - 130	2	20
Trichloroethene	25.0	24.1		ug/L		96	70 - 130	0	20
Trichlorofluoromethane	25.0	24.9		ug/L		99	66 - 132	5	20
1,2,3-Trichloropropane	25.0	27.1		ug/L		108	70 - 130	2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.1		ug/L		84	42 - 162	2	20
1,2,4-Trimethylbenzene	25.0	26.6		ug/L		107	70 - 132	3	20
1,3,5-Trimethylbenzene	25.0	27.1		ug/L		108	70 - 130	2	20
Vinyl acetate	25.0	36.2		ug/L		145	43 - 163	1	20
Vinyl chloride	25.0	22.8		ug/L		91	54 - 135	6	20
m-Xylene & p-Xylene	25.0	27.2		ug/L		109	70 - 142	1	20
o-Xylene	25.0	26.8		ug/L		107	70 - 130	1	20
2,2-Dichloropropane	25.0	27.7		ug/L		111	70 - 140	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	108		67 - 130
1,2-Dichloroethane-d4 (Surr)	107		72 - 130
Toluene-d8 (Surr)	101		70 - 130

**Lab Sample ID: LCSD 720-182221/8**

**Matrix: Water**

**Analysis Batch: 182221**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	500	467		ug/L		93	62 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	110		67 - 130
1,2-Dichloroethane-d4 (Surr)	117		72 - 130
Toluene-d8 (Surr)	100		70 - 130

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 720-182162/1-A**

**Matrix: Water**

**Analysis Batch: 182236**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 182162**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:24	1
Acenaphthylene	ND		4.0		ug/L		05/21/15 10:10	05/23/15 00:24	1
Acenaphthene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:24	1
Fluorene	ND		4.0		ug/L		05/21/15 10:10	05/23/15 00:24	1
Phenanthrene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:24	1
Anthracene	ND		2.0		ug/L		05/21/15 10:10	05/23/15 00:24	1

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID:** MB 720-182162/1-A  
**Matrix:** Water  
**Analysis Batch:** 182236

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 182162

Analyte	MB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
Fluoranthene	ND		2.0		ug/L	05/21/15 10:10	05/23/15 00:24	1	
Pyrene	ND		2.0		ug/L	05/21/15 10:10	05/23/15 00:24	1	
Benzo[a]anthracene	ND		5.0		ug/L	05/21/15 10:10	05/23/15 00:24	1	
Chrysene	ND		2.0		ug/L	05/21/15 10:10	05/23/15 00:24	1	
Benzo[b]fluoranthene	ND		2.0		ug/L	05/21/15 10:10	05/23/15 00:24	1	
Benzo[k]fluoranthene	ND		2.0		ug/L	05/21/15 10:10	05/23/15 00:24	1	
Benzo[a]pyrene	ND		2.0		ug/L	05/21/15 10:10	05/23/15 00:24	1	
Indeno[1,2,3-cd]pyrene	ND		2.0		ug/L	05/21/15 10:10	05/23/15 00:24	1	
Benzo[g,h,i]perylene	ND		2.0		ug/L	05/21/15 10:10	05/23/15 00:24	1	
2-Methylnaphthalene	ND		2.0		ug/L	05/21/15 10:10	05/23/15 00:24	1	
Dibenz(a,h)anthracene	ND		2.0		ug/L	05/21/15 10:10	05/23/15 00:24	1	
Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier					Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	49		11 - 92	05/21/15 10:10	05/23/15 00:24	1			
2-Fluorobiphenyl	63		10 - 101	05/21/15 10:10	05/23/15 00:24	1			
Terphenyl-d14	80		34 - 128	05/21/15 10:10	05/23/15 00:24	1			

**Lab Sample ID:** LCS 720-182162/2-A  
**Matrix:** Water  
**Analysis Batch:** 182236

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 182162

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Naphthalene	40.0	25.3		ug/L	63	12 - 115	
Acenaphthylene	40.0	27.0		ug/L	68	29 - 129	
Acenaphthene	40.0	27.7		ug/L	69	25 - 115	
Fluorene	40.0	30.8		ug/L	77	39 - 115	
Phenanthrene	40.0	34.1		ug/L	85	54 - 115	
Anthracene	40.0	34.0		ug/L	85	54 - 115	
Fluoranthene	40.0	36.1		ug/L	90	65 - 115	
Pyrene	40.0	37.2		ug/L	93	53 - 115	
Benzo[a]anthracene	40.0	36.1		ug/L	90	56 - 115	
Chrysene	40.0	35.2		ug/L	88	50 - 115	
Benzo[b]fluoranthene	40.0	32.6		ug/L	82	50 - 115	
Benzo[k]fluoranthene	40.0	33.6		ug/L	84	60 - 115	
Benzo[a]pyrene	40.0	35.0		ug/L	87	55 - 115	
Indeno[1,2,3-cd]pyrene	40.0	38.0		ug/L	95	49 - 117	
Benzo[g,h,i]perylene	40.0	37.0		ug/L	93	54 - 115	
2-Methylnaphthalene	40.0	26.9		ug/L	67	16 - 115	
Dibenz(a,h)anthracene	40.0	38.3		ug/L	96	47 - 127	
Surrogate	%Recovery	LCS		Limits	Dil Fac		
		Result	Qualifier				
Nitrobenzene-d5	55		11 - 92				
2-Fluorobiphenyl	63		10 - 101				
Terphenyl-d14	88		34 - 128				

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-182162/3-A**

**Matrix: Water**

**Analysis Batch: 182236**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 182162**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Naphthalene	40.0	27.8		ug/L		70	12 - 115	10	42
Acenaphthylene	40.0	30.4		ug/L		76	29 - 129	12	40
Acenaphthene	40.0	30.4		ug/L		76	25 - 115	9	40
Fluorene	40.0	33.1		ug/L		83	39 - 115	7	39
Phenanthrene	40.0	34.6		ug/L		87	54 - 115	1	35
Anthracene	40.0	35.0		ug/L		87	54 - 115	3	25
Fluoranthene	40.0	35.7		ug/L		89	65 - 115	1	26
Pyrene	40.0	37.6		ug/L		94	53 - 115	1	22
Benzo[a]anthracene	40.0	36.0		ug/L		90	56 - 115	0	24
Chrysene	40.0	35.4		ug/L		89	50 - 115	1	24
Benzo[b]fluoranthene	40.0	32.9		ug/L		82	50 - 115	1	31
Benzo[k]fluoranthene	40.0	33.9		ug/L		85	60 - 115	1	39
Benzo[a]pyrene	40.0	35.3		ug/L		88	55 - 115	1	23
Indeno[1,2,3-cd]pyrene	40.0	37.6		ug/L		94	49 - 117	1	19
Benzo[g,h,i]perylene	40.0	37.0		ug/L		93	54 - 115	0	35
2-Methylnaphthalene	40.0	29.6		ug/L		74	16 - 115	10	45
Dibenz(a,h)anthracene	40.0	37.9		ug/L		95	47 - 127	1	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	60		11 - 92
2-Fluorobiphenyl	71		10 - 101
Terphenyl-d14	87		34 - 128

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 720-182079/1-A**

**Matrix: Water**

**Analysis Batch: 182075**

**Client Sample ID: Method Blank**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 182079**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		05/20/15 10:17	05/21/15 04:38	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		05/20/15 10:17	05/21/15 04:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				05/20/15 10:17	05/21/15 04:38	1
p-Terphenyl	94		31 - 150				05/20/15 10:17	05/21/15 04:38	1

**Lab Sample ID: LCS 720-182079/2-A**

**Matrix: Water**

**Analysis Batch: 182124**

**Client Sample ID: Lab Control Sample**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 182079**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]	2500	1880		ug/L		75	32 - 119		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
p-Terphenyl	103		31 - 150						

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID:** LCSD 720-182079/3-A

**Matrix:** Water

**Analysis Batch:** 182124

**Client Sample ID:** Lab Control Sample Dup

**Prep Type:** Silica Gel Cleanup

**Prep Batch:** 182079

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	2000		ug/L		80	32 - 119	6	35
<i>LCSD LCSD</i>									
Surrogate	%Recovery	Qualifier	Limits						
p-Terphenyl	105		31 - 150						

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID:** MB 720-182161/1-A

**Matrix:** Water

**Analysis Batch:** 182149

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 182161

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50		ug/L		05/21/15 10:04	05/22/15 01:50	1
PCB-1221	ND		0.50		ug/L		05/21/15 10:04	05/22/15 01:50	1
PCB-1232	ND		0.50		ug/L		05/21/15 10:04	05/22/15 01:50	1
PCB-1242	ND		0.50		ug/L		05/21/15 10:04	05/22/15 01:50	1
PCB-1248	ND		0.50		ug/L		05/21/15 10:04	05/22/15 01:50	1
PCB-1254	ND		0.50		ug/L		05/21/15 10:04	05/22/15 01:50	1
PCB-1260	ND		0.50		ug/L		05/21/15 10:04	05/22/15 01:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		19 - 98				05/21/15 10:04	05/22/15 01:50	1
DCB Decachlorobiphenyl	77		10 - 122				05/21/15 10:04	05/22/15 01:50	1

**Lab Sample ID:** LCS 720-182161/2-A

**Matrix:** Water

**Analysis Batch:** 182149

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 182161

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	
PCB-1016	4.00	3.40		ug/L		85	40 - 115	
PCB-1260	4.00	3.19		ug/L		80	48 - 115	
<i>LCSD LCSD</i>								
Surrogate	%Recovery	Qualifier	Limits					
Tetrachloro-m-xylene	79		19 - 98					
DCB Decachlorobiphenyl	82		10 - 122					

**Lab Sample ID:** LCSD 720-182161/3-A

**Matrix:** Water

**Analysis Batch:** 182149

**Client Sample ID:** Lab Control Sample Dup

**Prep Type:** Total/NA

**Prep Batch:** 182161

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	4.00	3.21		ug/L		80	40 - 115	6	20
PCB-1260	4.00	3.13		ug/L		78	48 - 115	2	20
<i>LCSD LCSD</i>									
Surrogate	%Recovery	Qualifier	Limits						
Tetrachloro-m-xylene	71		19 - 98						

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 720-182161/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 182149

Prep Batch: 182161

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	76		10 - 122

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# QC Association Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## GC/MS VOA

### Analysis Batch: 182039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64882-1	MW-1	Total/NA	Water	8260B/CA_LUFT MS	5
LCS 720-182039/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	6
LCS 720-182039/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	7
LCSD 720-182039/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	8
LCSD 720-182039/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	9
MB 720-182039/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	10

### Analysis Batch: 182221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64882-1	MW-1	Total/NA	Water	8260B/CA_LUFT MS	11
LCS 720-182221/5	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	12
LCS 720-182221/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT MS	13
LCSD 720-182221/6	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	14
LCSD 720-182221/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT MS	15
MB 720-182221/4	Method Blank	Total/NA	Water	8260B/CA_LUFT MS	

## GC/MS Semi VOA

### Prep Batch: 182162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64882-1	MW-1	Total/NA	Water	3510C	
LCS 720-182162/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-182162/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-182162/1-A	Method Blank	Total/NA	Water	3510C	

### Analysis Batch: 182236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64882-1	MW-1	Total/NA	Water	8270C	182162
LCS 720-182162/2-A	Lab Control Sample	Total/NA	Water	8270C	182162
LCSD 720-182162/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	182162
MB 720-182162/1-A	Method Blank	Total/NA	Water	8270C	182162

## GC Semi VOA

### Analysis Batch: 182075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64882-1	MW-1	Silica Gel Cleanup	Water	8015B	182079
MB 720-182079/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	182079

# QC Association Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## GC Semi VOA (Continued)

### Prep Batch: 182079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64882-1	MW-1	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-182079/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-182079/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-182079/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

### Analysis Batch: 182124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-182079/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	182079
LCSD 720-182079/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	182079

### Analysis Batch: 182149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64882-1	MW-1	Total/NA	Water	8082	182161
LCS 720-182161/2-A	Lab Control Sample	Total/NA	Water	8082	182161
LCSD 720-182161/3-A	Lab Control Sample Dup	Total/NA	Water	8082	182161
MB 720-182161/1-A	Method Blank	Total/NA	Water	8082	182161

### Prep Batch: 182161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64882-1	MW-1	Total/NA	Water	3510C	
LCS 720-182161/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-182161/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-182161/1-A	Method Blank	Total/NA	Water	3510C	

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# Lab Chronicle

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

**Client Sample ID: MW-1**

**Date Collected: 05/15/15 13:55**

**Date Received: 05/18/15 17:54**

**Lab Sample ID: 720-64882-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		10	182221	05/22/15 14:06	ASC	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	182039	05/20/15 05:45	PRD	TAL PLS
Total/NA	Prep	3510C			182162	05/21/15 10:10	NDU	TAL PLS
Total/NA	Analysis	8270C		1	182236	05/23/15 00:46	MQL	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			182079	05/20/15 10:17	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	182075	05/21/15 01:12	DCH	TAL PLS
Total/NA	Prep	3510C			182161	05/21/15 10:04	NDU	TAL PLS
Total/NA	Analysis	8082		1	182149	05/22/15 00:43	DCH	TAL PLS

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

# Certification Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

## Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

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TestAmerica Pleasanton

## Method Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS

### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

## Sample Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-64882-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-64882-1	MW-1	Water	05/15/15 13:55	05/18/15 17:54

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TestAmerica Pleasanton

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Confluence Environmental, Inc.  
3308 El Camino Ave, Suite 300 #148  
Sacramento, CA 95821  
916-760-7641 - main  
916-473-8617 - fax  
[www.confluence-env.com](http://www.confluence-env.com)

**CONFLUENCE**  
**720-64882**

**Project Name:** 837 Industrial Rd, San Carlos  
**Job Number:** T-150515  
**TAT:** STANDARD 5 DAY 2 DAY 24 HOUR OTHER:

Page 1 of 1

5/26/2015

## Chain of Custody

Lab: Test America	Site Address: 837 Industrial Rd, San Carlos
Address: Pleasanton	California Global ID No.:
Contact:	Include EDF w/ Report: Yes      No      * per agreement w/ PES
Phone/ Fax:	Consultant / PM: PES / Chris Baldassari
	Phone / Fax: 415-899-1600

Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time
J. D. Thompson	720-64882	5/15/15	11:30	C. Baldassari	720-64882	5/15/15	12:00
Confluence Environmental	720-64882	5/15/15	13:00	Chris Baldassari	720-64882	5/15/15	13:00
Shipment Date:							
Shipment Method:							

Special Instructions: \*contact Chris Baldassari for details on PCB method 415-497-2731

## Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 720-64882-1

**Login Number:** 64882

**List Source:** TestAmerica Pleasanton

**List Number:** 1

**Creator:** Bullock, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-68766-1

Client Project/Site: 837 Industrial Road

For:

PES Environmental, Inc.

1682 Novato Boulevard

Suite 100

Novato, California 94947-7021

Attn: Mr. Chris Baldassari



---

Authorized for release by:

11/30/2015 3:20:54 PM

Afsaneh Salimpour, Senior Project Manager

(925)484-1919

[afsaneh.salimpour@testamericainc.com](mailto:afsaneh.salimpour@testamericainc.com)

### LINKS

Review your project  
results through

Total Access

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

# Table of Contents

Cover Page .....	1
Table of Contents .....	2
Definitions/Glossary .....	3
Case Narrative .....	4
Detection Summary .....	5
Client Sample Results .....	6
Surrogate Summary .....	11
QC Sample Results .....	13
QC Association Summary .....	25
Lab Chronicle .....	27
Certification Summary .....	28
Method Summary .....	29
Sample Summary .....	30
Chain of Custody .....	31
Receipt Checklists .....	33

# Definitions/Glossary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

## Glossary

### Abbreviation

**These commonly used abbreviations may or may not be present in this report.**

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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# Case Narrative

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Job ID: 720-68766-1

Laboratory: TestAmerica Pleasanton

### Narrative

#### Job Narrative 720-68766-1

### Comments

No additional comments.

### Receipt

The sample was received on 11/20/2015 9:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

### GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 720-193167 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-1 (720-68766-1), (720-68766-A-1 MS) and (720-68766-A-1 MSD).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 720-193167 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Detection Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

**Client Sample ID: MW-1**

**Lab Sample ID: 720-68766-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	2.8		2.5		ug/L	5		8260B/CA_LUFT	Total/NA
					MS				
Chloroform	9.6		5.0		ug/L	5		8260B/CA_LUFT	Total/NA
					MS				
1,2-Dichloroethane	13		2.5		ug/L	5		8260B/CA_LUFT	Total/NA
					MS				
cis-1,2-Dichloroethene	3.5		2.5		ug/L	5		8260B/CA_LUFT	Total/NA
					MS				
Tetrachloroethene	120		2.5		ug/L	5		8260B/CA_LUFT	Total/NA
					MS				
Trichloroethene	26		2.5		ug/L	5		8260B/CA_LUFT	Total/NA
					MS				
Trichlorofluoromethane	8.9		5.0		ug/L	5		8260B/CA_LUFT	Total/NA
					MS				
1,1,2-Trichloro-1,2,2-trifluoroethane	9.0		2.5		ug/L	5		8260B/CA_LUFT	Total/NA
					MS				

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Client Sample ID: MW-1**

**Date Collected: 11/19/15 08:30**

**Date Received: 11/20/15 09:45**

**Lab Sample ID: 720-68766-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		2.5		ug/L			11/24/15 23:44	5
Acetone	ND		250		ug/L			11/24/15 23:44	5
Benzene	ND		2.5		ug/L			11/24/15 23:44	5
Dichlorobromomethane	ND		2.5		ug/L			11/24/15 23:44	5
Bromobenzene	ND		5.0		ug/L			11/24/15 23:44	5
Chlorobromomethane	ND		5.0		ug/L			11/24/15 23:44	5
Bromoform	ND		5.0		ug/L			11/24/15 23:44	5
Bromomethane	ND		5.0		ug/L			11/24/15 23:44	5
2-Butanone (MEK)	ND		250		ug/L			11/24/15 23:44	5
n-Butylbenzene	ND		5.0		ug/L			11/24/15 23:44	5
sec-Butylbenzene	ND		5.0		ug/L			11/24/15 23:44	5
tert-Butylbenzene	ND		5.0		ug/L			11/24/15 23:44	5
Carbon disulfide	ND		25		ug/L			11/24/15 23:44	5
<b>Carbon tetrachloride</b>	<b>2.8</b>		2.5		ug/L			11/24/15 23:44	5
Chlorobenzene	ND		2.5		ug/L			11/24/15 23:44	5
Chloroethane	ND		5.0		ug/L			11/24/15 23:44	5
<b>Chloroform</b>	<b>9.6</b>		5.0		ug/L			11/24/15 23:44	5
Chloromethane	ND		5.0		ug/L			11/24/15 23:44	5
2-Chlorotoluene	ND		2.5		ug/L			11/24/15 23:44	5
4-Chlorotoluene	ND		2.5		ug/L			11/24/15 23:44	5
Chlorodibromomethane	ND		2.5		ug/L			11/24/15 23:44	5
1,2-Dichlorobenzene	ND		2.5		ug/L			11/24/15 23:44	5
1,3-Dichlorobenzene	ND		2.5		ug/L			11/24/15 23:44	5
1,4-Dichlorobenzene	ND		2.5		ug/L			11/24/15 23:44	5
1,3-Dichloropropane	ND		5.0		ug/L			11/24/15 23:44	5
1,1-Dichloropropene	ND		2.5		ug/L			11/24/15 23:44	5
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			11/24/15 23:44	5
Ethylene Dibromide	ND		2.5		ug/L			11/24/15 23:44	5
Dibromomethane	ND		2.5		ug/L			11/24/15 23:44	5
Dichlorodifluoromethane	ND	F1 *	2.5		ug/L			11/24/15 23:44	5
1,1-Dichloroethane	ND		2.5		ug/L			11/24/15 23:44	5
<b>1,2-Dichloroethane</b>	<b>13</b>		2.5		ug/L			11/24/15 23:44	5
1,1-Dichloroethene	ND		2.5		ug/L			11/24/15 23:44	5
<b>cis-1,2-Dichloroethene</b>	<b>3.5</b>		2.5		ug/L			11/24/15 23:44	5
trans-1,2-Dichloroethene	ND		2.5		ug/L			11/24/15 23:44	5
1,2-Dichloropropane	ND		2.5		ug/L			11/24/15 23:44	5
cis-1,3-Dichloropropene	ND		2.5		ug/L			11/24/15 23:44	5
trans-1,3-Dichloropropene	ND		2.5		ug/L			11/24/15 23:44	5
Ethylbenzene	ND		2.5		ug/L			11/24/15 23:44	5
Hexachlorobutadiene	ND		5.0		ug/L			11/24/15 23:44	5
2-Hexanone	ND		250		ug/L			11/24/15 23:44	5
Isopropylbenzene	ND		2.5		ug/L			11/24/15 23:44	5
4-Isopropyltoluene	ND		5.0		ug/L			11/24/15 23:44	5
Methylene Chloride	ND		25		ug/L			11/24/15 23:44	5
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			11/24/15 23:44	5
Naphthalene	ND		5.0		ug/L			11/24/15 23:44	5
N-Propylbenzene	ND		5.0		ug/L			11/24/15 23:44	5
Styrene	ND		2.5		ug/L			11/24/15 23:44	5
1,1,1,2-Tetrachloroethane	ND		2.5		ug/L			11/24/15 23:44	5

TestAmerica Pleasanton

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## **Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)**

**Client Sample ID: MW-1**

**Date Collected: 11/19/15 08:30**

**Date Received: 11/20/15 09:45**

**Lab Sample ID: 720-68766-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L		11/24/15 23:44		5
<b>Tetrachloroethene</b>	<b>120</b>		2.5		ug/L		11/24/15 23:44		5
Toluene	ND		2.5		ug/L		11/24/15 23:44		5
1,2,3-Trichlorobenzene	ND		5.0		ug/L		11/24/15 23:44		5
1,2,4-Trichlorobenzene	ND		5.0		ug/L		11/24/15 23:44		5
1,1,1-Trichloroethane	ND		2.5		ug/L		11/24/15 23:44		5
1,1,2-Trichloroethane	ND		2.5		ug/L		11/24/15 23:44		5
<b>Trichloroethene</b>	<b>26</b>		2.5		ug/L		11/24/15 23:44		5
<b>Trichlorofluoromethane</b>	<b>8.9</b>		5.0		ug/L		11/24/15 23:44		5
1,2,3-Trichloropropane	ND		2.5		ug/L		11/24/15 23:44		5
<b>1,1,2-Trichloro-1,2,2-trifluoroethane</b>	<b>9.0</b>		2.5		ug/L		11/24/15 23:44		5
1,2,4-Trimethylbenzene	ND		2.5		ug/L		11/24/15 23:44		5
1,3,5-Trimethylbenzene	ND		2.5		ug/L		11/24/15 23:44		5
Vinyl acetate	ND		50		ug/L		11/24/15 23:44		5
Vinyl chloride	ND		2.5		ug/L		11/24/15 23:44		5
Xylenes, Total	ND		5.0		ug/L		11/24/15 23:44		5
2,2-Dichloropropane	ND		2.5		ug/L		11/24/15 23:44		5
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/L		11/24/15 23:44		5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	85		67 - 130				11/24/15 23:44		5
1,2-Dichloroethane-d4 (Surr)	104		72 - 130				11/24/15 23:44		5
Toluene-d8 (Surr)	89		70 - 130				11/24/15 23:44		5

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Client Sample ID: MW-1**

**Date Collected: 11/19/15 08:30**

**Date Received: 11/20/15 09:45**

**Lab Sample ID: 720-68766-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Acenaphthylene	ND		4.7		ug/L		11/24/15 10:00	11/27/15 13:51	1
Acenaphthene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Fluorene	ND		4.7		ug/L		11/24/15 10:00	11/27/15 13:51	1
Phenanthrene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Anthracene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Fluoranthene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Pyrene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Benzo[a]anthracene	ND		5.8		ug/L		11/24/15 10:00	11/27/15 13:51	1
Chrysene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Benzo[b]fluoranthene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Benzo[k]fluoranthene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Benzo[a]pyrene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Indeno[1,2,3-cd]pyrene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Benzo[g,h,i]perylene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
2-Methylnaphthalene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Dibenz(a,h)anthracene	ND		2.3		ug/L		11/24/15 10:00	11/27/15 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	45		11 - 92				11/24/15 10:00	11/27/15 13:51	1
2-Fluorobiphenyl	59		10 - 101				11/24/15 10:00	11/27/15 13:51	1
Terphenyl-d14	79		34 - 128				11/24/15 10:00	11/27/15 13:51	1

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: MW-1

Date Collected: 11/19/15 08:30

Date Received: 11/20/15 09:45

Lab Sample ID: 720-68766-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		57		ug/L		11/23/15 10:35	11/23/15 19:42	1
Motor Oil Range Organics [C24-C36]	ND		110		ug/L		11/23/15 10:35	11/23/15 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0.002		0 - 5				11/23/15 10:35	11/23/15 19:42	1
p-Terphenyl	101		31 - 150				11/23/15 10:35	11/23/15 19:42	1

# Client Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: MW-1

Date Collected: 11/19/15 08:30

Date Received: 11/20/15 09:45

Lab Sample ID: 720-68766-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.56		ug/L		11/24/15 09:54	11/24/15 19:59	1
PCB-1221	ND		0.56		ug/L		11/24/15 09:54	11/24/15 19:59	1
PCB-1232	ND		0.56		ug/L		11/24/15 09:54	11/24/15 19:59	1
PCB-1242	ND		0.56		ug/L		11/24/15 09:54	11/24/15 19:59	1
PCB-1248	ND		0.56		ug/L		11/24/15 09:54	11/24/15 19:59	1
PCB-1254	ND		0.56		ug/L		11/24/15 09:54	11/24/15 19:59	1
PCB-1260	ND		0.56		ug/L		11/24/15 09:54	11/24/15 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	65		19 - 98				11/24/15 09:54	11/24/15 19:59	1
DCB Decachlorobiphenyl	39		10 - 122				11/24/15 09:54	11/24/15 19:59	1

# Surrogate Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-68766-1	MW-1	85	104	89
720-68766-1 MS	MW-1	95	94	96
720-68766-1 MSD	MW-1	94	94	95
LCS 720-193167/5	Lab Control Sample	93	92	95
LCS 720-193167/7	Lab Control Sample	91	94	95
LCSD 720-193167/6	Lab Control Sample Dup	95	97	97
LCSD 720-193167/8	Lab Control Sample Dup	94	98	96
MB 720-193167/4	Method Blank	81	99	89

### Surrogate Legend

BFB = 4-Bromofluorobenzene

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (11-92)	FBP (10-101)	TPH (34-128)
720-68766-1	MW-1	45	59	79
LCS 720-193131/2-A	Lab Control Sample	54	72	83
LCSD 720-193131/3-A	Lab Control Sample Dup	52	70	88
MB 720-193131/1-A	Method Blank	50	64	89

### Surrogate Legend

NBZ = Nitrobenzene-d5

FBP = 2-Fluorobiphenyl

TPH = Terphenyl-d14

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Silica Gel Cleanup

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		NDA1 (0-5)	PTP1 (31-150)
720-68766-1	MW-1	0.002	101
LCS 720-193046/2-A	Lab Control Sample		100
LCSD 720-193046/3-A	Lab Control Sample Dup		95
MB 720-193046/1-A	Method Blank	0.01	96

### Surrogate Legend

NDA = Capric Acid (Surr)

PTP = p-Terphenyl

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# Surrogate Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (19-98)	DCB1 (10-122)
720-68766-1	MW-1	65	39
LCS 720-193127/2-A	Lab Control Sample	81	85
LCSD 720-193127/3-A	Lab Control Sample Dup	68	81
MB 720-193127/1-A	Method Blank	75	72

### Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS

**Lab Sample ID: MB 720-193167/4**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/L			11/24/15 19:48	1
Acetone	ND		50		ug/L			11/24/15 19:48	1
Benzene	ND		0.50		ug/L			11/24/15 19:48	1
Dichlorobromomethane	ND		0.50		ug/L			11/24/15 19:48	1
Bromobenzene	ND		1.0		ug/L			11/24/15 19:48	1
Chlorobromomethane	ND		1.0		ug/L			11/24/15 19:48	1
Bromoform	ND		1.0		ug/L			11/24/15 19:48	1
Bromomethane	ND		1.0		ug/L			11/24/15 19:48	1
2-Butanone (MEK)	ND		50		ug/L			11/24/15 19:48	1
n-Butylbenzene	ND		1.0		ug/L			11/24/15 19:48	1
sec-Butylbenzene	ND		1.0		ug/L			11/24/15 19:48	1
tert-Butylbenzene	ND		1.0		ug/L			11/24/15 19:48	1
Carbon disulfide	ND		5.0		ug/L			11/24/15 19:48	1
Carbon tetrachloride	ND		0.50		ug/L			11/24/15 19:48	1
Chlorobenzene	ND		0.50		ug/L			11/24/15 19:48	1
Chloroethane	ND		1.0		ug/L			11/24/15 19:48	1
Chloroform	ND		1.0		ug/L			11/24/15 19:48	1
Chloromethane	ND		1.0		ug/L			11/24/15 19:48	1
2-Chlorotoluene	ND		0.50		ug/L			11/24/15 19:48	1
4-Chlorotoluene	ND		0.50		ug/L			11/24/15 19:48	1
Chlorodibromomethane	ND		0.50		ug/L			11/24/15 19:48	1
1,2-Dichlorobenzene	ND		0.50		ug/L			11/24/15 19:48	1
1,3-Dichlorobenzene	ND		0.50		ug/L			11/24/15 19:48	1
1,4-Dichlorobenzene	ND		0.50		ug/L			11/24/15 19:48	1
1,3-Dichloropropane	ND		1.0		ug/L			11/24/15 19:48	1
1,1-Dichloropropene	ND		0.50		ug/L			11/24/15 19:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			11/24/15 19:48	1
Ethylene Dibromide	ND		0.50		ug/L			11/24/15 19:48	1
Dibromomethane	ND		0.50		ug/L			11/24/15 19:48	1
Dichlorodifluoromethane	ND		0.50		ug/L			11/24/15 19:48	1
1,1-Dichloroethane	ND		0.50		ug/L			11/24/15 19:48	1
1,2-Dichloroethane	ND		0.50		ug/L			11/24/15 19:48	1
1,1-Dichloroethene	ND		0.50		ug/L			11/24/15 19:48	1
cis-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 19:48	1
trans-1,2-Dichloroethene	ND		0.50		ug/L			11/24/15 19:48	1
1,2-Dichloropropane	ND		0.50		ug/L			11/24/15 19:48	1
cis-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 19:48	1
trans-1,3-Dichloropropene	ND		0.50		ug/L			11/24/15 19:48	1
Ethylbenzene	ND		0.50		ug/L			11/24/15 19:48	1
Hexachlorobutadiene	ND		1.0		ug/L			11/24/15 19:48	1
2-Hexanone	ND		50		ug/L			11/24/15 19:48	1
Isopropylbenzene	ND		0.50		ug/L			11/24/15 19:48	1
4-Isopropyltoluene	ND		1.0		ug/L			11/24/15 19:48	1
Methylene Chloride	ND		5.0		ug/L			11/24/15 19:48	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			11/24/15 19:48	1
Naphthalene	ND		1.0		ug/L			11/24/15 19:48	1
N-Propylbenzene	ND		1.0		ug/L			11/24/15 19:48	1
Styrene	ND		0.50		ug/L			11/24/15 19:48	1

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: MB 720-193167/4**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 19:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			11/24/15 19:48	1
Tetrachloroethene	ND		0.50		ug/L			11/24/15 19:48	1
Toluene	ND		0.50		ug/L			11/24/15 19:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			11/24/15 19:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			11/24/15 19:48	1
1,1,1-Trichloroethane	ND		0.50		ug/L			11/24/15 19:48	1
1,1,2-Trichloroethane	ND		0.50		ug/L			11/24/15 19:48	1
Trichloroethene	ND		0.50		ug/L			11/24/15 19:48	1
Trichlorofluoromethane	ND		1.0		ug/L			11/24/15 19:48	1
1,2,3-Trichloropropane	ND		0.50		ug/L			11/24/15 19:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/L			11/24/15 19:48	1
1,2,4-Trimethylbenzene	ND		0.50		ug/L			11/24/15 19:48	1
1,3,5-Trimethylbenzene	ND		0.50		ug/L			11/24/15 19:48	1
Vinyl acetate	ND		10		ug/L			11/24/15 19:48	1
Vinyl chloride	ND		0.50		ug/L			11/24/15 19:48	1
Xylenes, Total	ND		1.0		ug/L			11/24/15 19:48	1
2,2-Dichloropropane	ND		0.50		ug/L			11/24/15 19:48	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			11/24/15 19:48	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	81		67 - 130		11/24/15 19:48	1
1,2-Dichloroethane-d4 (Surr)	99		72 - 130		11/24/15 19:48	1
Toluene-d8 (Surr)	89		70 - 130		11/24/15 19:48	1

**Lab Sample ID: LCS 720-193167/5**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Methyl tert-butyl ether	25.0	22.2		ug/L		89	62 - 130
Acetone	125	113		ug/L		91	26 - 180
Benzene	25.0	24.0		ug/L		96	79 - 130
Dichlorobromomethane	25.0	25.2		ug/L		101	70 - 130
Bromobenzene	25.0	23.1		ug/L		92	70 - 130
Chlorobromomethane	25.0	23.0		ug/L		92	70 - 130
Bromoform	25.0	25.6		ug/L		102	68 - 136
Bromomethane	25.0	26.4		ug/L		106	43 - 151
2-Butanone (MEK)	125	115		ug/L		92	54 - 130
n-Butylbenzene	25.0	26.0		ug/L		104	70 - 142
sec-Butylbenzene	25.0	25.9		ug/L		104	70 - 134
tert-Butylbenzene	25.0	25.4		ug/L		102	70 - 135
Carbon disulfide	25.0	24.2		ug/L		97	58 - 130
Carbon tetrachloride	25.0	26.1		ug/L		104	70 - 146
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130
Chloroethane	25.0	24.8		ug/L		99	62 - 138
Chloroform	25.0	24.3		ug/L		97	70 - 130

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-193167/5**  
**Matrix: Water**  
**Analysis Batch: 193167**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier						
Chloromethane	25.0	27.3		ug/L		109	52 - 175		
2-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130		
4-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130		
Chlorodibromomethane	25.0	23.5		ug/L		94	70 - 145		
1,2-Dichlorobenzene	25.0	23.1		ug/L		92	70 - 130		
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130		
1,4-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130		
1,3-Dichloropropane	25.0	23.6		ug/L		95	70 - 130		
1,1-Dichloropropene	25.0	24.7		ug/L		99	70 - 130		
1,2-Dibromo-3-Chloropropane	25.0	21.7		ug/L		87	70 - 136		
Ethylene Dibromide	25.0	24.6		ug/L		98	70 - 130		
Dibromomethane	25.0	23.8		ug/L		95	70 - 130		
Dichlorodifluoromethane	25.0	35.3 *		ug/L		141	34 - 132		
1,1-Dichloroethane	25.0	23.9		ug/L		96	70 - 130		
1,2-Dichloroethane	25.0	23.6		ug/L		94	61 - 132		
1,1-Dichloroethene	25.0	21.8		ug/L		87	64 - 128		
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130		
trans-1,2-Dichloroethene	25.0	23.1		ug/L		93	68 - 130		
1,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130		
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130		
trans-1,3-Dichloropropene	25.0	23.9		ug/L		96	70 - 140		
Ethylbenzene	25.0	24.7		ug/L		99	80 - 120		
Hexachlorobutadiene	25.0	23.5		ug/L		94	70 - 130		
2-Hexanone	125	118		ug/L		94	60 - 164		
Isopropylbenzene	25.0	26.6		ug/L		106	70 - 130		
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130		
Methylene Chloride	25.0	24.1		ug/L		96	70 - 147		
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	58 - 130		
Naphthalene	25.0	23.4		ug/L		94	70 - 130		
N-Propylbenzene	25.0	26.0		ug/L		104	70 - 130		
Styrene	25.0	25.3		ug/L		101	70 - 130		
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130		
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	70 - 130		
Tetrachloroethene	25.0	23.4		ug/L		94	70 - 130		
Toluene	25.0	22.8		ug/L		91	78 - 120		
1,2,3-Trichlorobenzene	25.0	21.7		ug/L		87	70 - 130		
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	70 - 130		
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130		
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	70 - 130		
Trichloroethene	25.0	24.5		ug/L		98	70 - 130		
Trichlorofluoromethane	25.0	26.7		ug/L		107	66 - 132		
1,2,3-Trichloropropane	25.0	23.4		ug/L		94	70 - 130		
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.6		ug/L		95	42 - 162		
1,2,4-Trimethylbenzene	25.0	25.8		ug/L		103	70 - 132		
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130		
Vinyl acetate	25.0	24.0		ug/L		96	43 - 163		
Vinyl chloride	25.0	27.3		ug/L		109	54 - 135		

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCS 720-193167/5**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
m-Xylene & p-Xylene	25.0	24.3		ug/L		97	70 - 142
o-Xylene	25.0	24.9		ug/L		99	70 - 130
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 140

Surrogate	%Recovery	LCS		Limits
		LCS	Qualifier	
4-Bromofluorobenzene	93			67 - 130
1,2-Dichloroethane-d4 (Surr)	92			72 - 130
Toluene-d8 (Surr)	95			70 - 130

**Lab Sample ID: LCS 720-193167/7**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
Gasoline Range Organics (GRO) -C5-C12	500	496		ug/L		99	62 - 120

Surrogate	%Recovery	LCS		Limits
		LCS	Qualifier	
4-Bromofluorobenzene	91			67 - 130
1,2-Dichloroethane-d4 (Surr)	94			72 - 130
Toluene-d8 (Surr)	95			70 - 130

**Lab Sample ID: LCSD 720-193167/6**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD		Unit	D	%Rec	Limits	RPD	RPD Limit
		Result	Qualifier						
Methyl tert-butyl ether	25.0	24.6		ug/L		98	62 - 130	10	20
Acetone	125	127		ug/L		102	26 - 180	11	30
Benzene	25.0	24.1		ug/L		96	79 - 130	0	20
Dichlorobromomethane	25.0	25.7		ug/L		103	70 - 130	2	20
Bromobenzene	25.0	23.5		ug/L		94	70 - 130	2	20
Chlorobromomethane	25.0	23.5		ug/L		94	70 - 130	2	20
Bromoform	25.0	27.2		ug/L		109	68 - 136	6	20
Bromomethane	25.0	27.2		ug/L		109	43 - 151	3	20
2-Butanone (MEK)	125	126		ug/L		101	54 - 130	10	20
n-Butylbenzene	25.0	25.3		ug/L		101	70 - 142	3	20
sec-Butylbenzene	25.0	25.4		ug/L		101	70 - 134	2	20
tert-Butylbenzene	25.0	25.4		ug/L		101	70 - 135	0	20
Carbon disulfide	25.0	24.2		ug/L		97	58 - 130	0	20
Carbon tetrachloride	25.0	25.9		ug/L		104	70 - 146	1	20
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130	0	20
Chloroethane	25.0	25.3		ug/L		101	62 - 138	2	20
Chloroform	25.0	24.3		ug/L		97	70 - 130	0	20
Chloromethane	25.0	28.8		ug/L		115	52 - 175	5	20
2-Chlorotoluene	25.0	24.4		ug/L		97	70 - 130	1	20
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130	0	20
Chlorodibromomethane	25.0	24.7		ug/L		99	70 - 145	5	20

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-193167/6

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 193167

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.		RPD	RPD Limit
	Added	Result	Qualifier				Limits	RPD		
1,2-Dichlorobenzene	25.0	23.3		ug/L	93	70 - 130		1	20	
1,3-Dichlorobenzene	25.0	23.3		ug/L	93	70 - 130		0	20	
1,4-Dichlorobenzene	25.0	23.1		ug/L	92	70 - 130		1	20	
1,3-Dichloropropane	25.0	24.6		ug/L	99	70 - 130		4	20	
1,1-Dichloropropene	25.0	24.5		ug/L	98	70 - 130		1	20	
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L	101	70 - 136		15	20	
Ethylene Dibromide	25.0	26.0		ug/L	104	70 - 130		5	20	
Dibromomethane	25.0	24.9		ug/L	100	70 - 130		5	20	
Dichlorodifluoromethane	25.0	35.9 *		ug/L	143	34 - 132		1	20	
1,1-Dichloroethane	25.0	24.0		ug/L	96	70 - 130		1	20	
1,2-Dichloroethane	25.0	24.6		ug/L	98	61 - 132		4	20	
1,1-Dichloroethene	25.0	21.9		ug/L	88	64 - 128		1	20	
cis-1,2-Dichloroethene	25.0	24.3		ug/L	97	70 - 130		0	20	
trans-1,2-Dichloroethene	25.0	23.1		ug/L	92	68 - 130		0	20	
1,2-Dichloropropane	25.0	24.8		ug/L	99	70 - 130		2	20	
cis-1,3-Dichloropropene	25.0	25.8		ug/L	103	70 - 130		3	20	
trans-1,3-Dichloropropene	25.0	25.2		ug/L	101	70 - 140		5	20	
Ethylbenzene	25.0	24.4		ug/L	98	80 - 120		1	20	
Hexachlorobutadiene	25.0	22.8		ug/L	91	70 - 130		3	20	
2-Hexanone	125	137		ug/L	110	60 - 164		15	20	
Isopropylbenzene	25.0	26.0		ug/L	104	70 - 130		2	20	
4-Isopropyltoluene	25.0	24.5		ug/L	98	70 - 130		3	20	
Methylene Chloride	25.0	24.4		ug/L	98	70 - 147		1	20	
4-Methyl-2-pentanone (MIBK)	125	140		ug/L	112	58 - 130		13	20	
Naphthalene	25.0	25.2		ug/L	101	70 - 130		7	20	
N-Propylbenzene	25.0	25.6		ug/L	102	70 - 130		1	20	
Styrene	25.0	25.8		ug/L	103	70 - 130		2	20	
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L	101	70 - 130		2	20	
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L	100	70 - 130		8	20	
Tetrachloroethene	25.0	23.4		ug/L	94	70 - 130		0	20	
Toluene	25.0	22.9		ug/L	91	78 - 120		0	20	
1,2,3-Trichlorobenzene	25.0	22.5		ug/L	90	70 - 130		3	20	
1,2,4-Trichlorobenzene	25.0	23.2		ug/L	93	70 - 130		2	20	
1,1,1-Trichloroethane	25.0	25.1		ug/L	100	70 - 130		0	20	
1,1,2-Trichloroethane	25.0	24.7		ug/L	99	70 - 130		4	20	
Trichloroethene	25.0	24.4		ug/L	97	70 - 130		1	20	
Trichlorofluoromethane	25.0	26.2		ug/L	105	66 - 132		2	20	
1,2,3-Trichloropropane	25.0	24.8		ug/L	99	70 - 130		6	20	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.3		ug/L	93	42 - 162		1	20	
1,2,4-Trimethylbenzene	25.0	25.6		ug/L	103	70 - 132		0	20	
1,3,5-Trimethylbenzene	25.0	25.4		ug/L	102	70 - 130		1	20	
Vinyl acetate	25.0	27.2		ug/L	109	43 - 163		12	20	
Vinyl chloride	25.0	28.4		ug/L	114	54 - 135		4	20	
m-Xylene & p-Xylene	25.0	23.9		ug/L	96	70 - 142		2	20	
o-Xylene	25.0	24.7		ug/L	99	70 - 130		0	20	
2,2-Dichloropropane	25.0	24.7		ug/L	99	70 - 140		2	20	

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: LCSD 720-193167/6**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	95		67 - 130
1,2-Dichloroethane-d4 (Surr)	97		72 - 130
Toluene-d8 (Surr)	97		70 - 130

**Lab Sample ID: LCSD 720-193167/8**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD
Gasoline Range Organics (GRO) -C5-C12	500	496		ug/L	99	62 - 120	0 20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	94		67 - 130
1,2-Dichloroethane-d4 (Surr)	98		72 - 130
Toluene-d8 (Surr)	96		70 - 130

**Lab Sample ID: 720-68766-1 MS**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: MW-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	RPD
Methyl tert-butyl ether	ND		125	123		ug/L	99	60 - 138	
Acetone	ND		625	574		ug/L	92	60 - 140	
Benzene	ND		125	121		ug/L	97	60 - 140	
Dichlorobromomethane	ND		125	129		ug/L	103	60 - 140	
Bromobenzene	ND		125	117		ug/L	94	60 - 140	
Chlorobromomethane	ND		125	119		ug/L	95	60 - 140	
Bromoform	ND		125	132		ug/L	106	56 - 140	
Bromomethane	ND		125	133		ug/L	106	23 - 140	
2-Butanone (MEK)	ND		625	659		ug/L	105	60 - 140	
n-Butylbenzene	ND		125	129		ug/L	103	60 - 140	
sec-Butylbenzene	ND		125	127		ug/L	101	60 - 140	
tert-Butylbenzene	ND		125	126		ug/L	101	60 - 140	
Carbon disulfide	ND		125	122		ug/L	98	38 - 140	
Carbon tetrachloride	2.8		125	129		ug/L	101	60 - 140	
Chlorobenzene	ND		125	116		ug/L	93	60 - 140	
Chloroethane	ND		125	126		ug/L	101	51 - 140	
Chloroform	9.6		125	132		ug/L	98	60 - 140	
Chloromethane	ND		125	138		ug/L	111	52 - 140	
2-Chlorotoluene	ND		125	122		ug/L	98	60 - 140	
4-Chlorotoluene	ND		125	123		ug/L	98	60 - 140	
Chlorodibromomethane	ND		125	121		ug/L	97	60 - 140	
1,2-Dichlorobenzene	ND		125	117		ug/L	94	60 - 140	
1,3-Dichlorobenzene	ND		125	117		ug/L	94	60 - 140	
1,4-Dichlorobenzene	ND		125	117		ug/L	93	60 - 140	
1,3-Dichloropropane	ND		125	122		ug/L	98	60 - 140	
1,1-Dichloropropene	ND		125	123		ug/L	98	60 - 140	

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: 720-68766-1 MS**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: MW-1  
Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits	
	Result	Qualifier	Added	Result	Qualifier						
1,2-Dibromo-3-Chloropropane	ND		125	123		ug/L		98	60 - 140		
Ethylene Dibromide	ND		125	128		ug/L		103	60 - 140		
Dibromomethane	ND		125	123		ug/L		98	60 - 140		
Dichlorodifluoromethane	ND	F1 *	125	177	F1	ug/L		142	38 - 140		
1,1-Dichloroethane	ND		125	121		ug/L		97	60 - 140		
1,2-Dichloroethane	13		125	133		ug/L		97	60 - 140		
1,1-Dichloroethene	ND		125	111		ug/L		89	60 - 140		
cis-1,2-Dichloroethene	3.5		125	127		ug/L		99	60 - 140		
trans-1,2-Dichloroethene	ND		125	119		ug/L		95	60 - 140		
1,2-Dichloropropane	ND		125	126		ug/L		101	60 - 140		
cis-1,3-Dichloropropene	ND		125	130		ug/L		104	60 - 140		
trans-1,3-Dichloropropene	ND		125	126		ug/L		100	60 - 140		
Ethylbenzene	ND		125	124		ug/L		100	60 - 140		
Hexachlorobutadiene	ND		125	115		ug/L		92	60 - 140		
2-Hexanone	ND		625	664		ug/L		106	60 - 140		
Isopropylbenzene	ND		125	131		ug/L		105	60 - 140		
4-Isopropyltoluene	ND		125	124		ug/L		99	60 - 140		
Methylene Chloride	ND		125	125		ug/L		100	40 - 140		
4-Methyl-2-pentanone (MIBK)	ND		625	694		ug/L		111	58 - 130		
Naphthalene	ND		125	126		ug/L		101	56 - 140		
N-Propylbenzene	ND		125	129		ug/L		103	60 - 140		
Styrene	ND		125	130		ug/L		104	60 - 140		
1,1,1,2-Tetrachloroethane	ND		125	125		ug/L		100	60 - 140		
1,1,2,2-Tetrachloroethane	ND		125	124		ug/L		99	60 - 140		
Tetrachloroethene	120		125	236		ug/L		89	60 - 140		
Toluene	ND		125	116		ug/L		92	60 - 140		
1,2,3-Trichlorobenzene	ND		125	113		ug/L		91	60 - 140		
1,2,4-Trichlorobenzene	ND		125	118		ug/L		95	60 - 140		
1,1,1-Trichloroethane	ND		125	124		ug/L		99	60 - 140		
1,1,2-Trichloroethane	ND		125	126		ug/L		101	60 - 140		
Trichloroethene	26		125	148		ug/L		98	60 - 140		
Trichlorofluoromethane	8.9		125	137		ug/L		103	60 - 140		
1,2,3-Trichloropropane	ND		125	126		ug/L		101	60 - 140		
1,1,2-Trichloro-1,2,2-trifluoroethane	9.0		125	125		ug/L		93	60 - 140		
1,2,4-Trimethylbenzene	ND		125	128		ug/L		103	60 - 140		
1,3,5-Trimethylbenzene	ND		125	128		ug/L		103	60 - 140		
Vinyl acetate	ND		125	140		ug/L		112	40 - 140		
Vinyl chloride	ND		125	138		ug/L		108	58 - 140		
m-Xylene & p-Xylene	ND		125	123		ug/L		98	60 - 140		
o-Xylene	ND		125	126		ug/L		101	60 - 140		
2,2-Dichloropropane	ND		125	126		ug/L		101	60 - 140		
<b>Surrogate</b>											
		MS	MS								
		%Recovery	Qualifier								
4-Bromofluorobenzene		95		67 - 130							
1,2-Dichloroethane-d4 (Surr)		94		72 - 130							
Toluene-d8 (Surr)		96		70 - 130							

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: 720-68766-1 MSD**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: MW-1  
Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Methyl tert-butyl ether	ND		125	124		ug/L	100	60 - 138	1	20	
Acetone	ND		625	558		ug/L	89	60 - 140	3	20	
Benzene	ND		125	122		ug/L	98	60 - 140	1	20	
Dichlorobromomethane	ND		125	129		ug/L	103	60 - 140	0	20	
Bromobenzene	ND		125	117		ug/L	93	60 - 140	0	20	
Chlorobromomethane	ND		125	117		ug/L	94	60 - 140	1	20	
Bromoform	ND		125	131		ug/L	105	56 - 140	1	20	
Bromomethane	ND		125	134		ug/L	107	23 - 140	1	20	
2-Butanone (MEK)	ND		625	624		ug/L	100	60 - 140	6	20	
n-Butylbenzene	ND		125	129		ug/L	103	60 - 140	0	20	
sec-Butylbenzene	ND		125	127		ug/L	102	60 - 140	0	20	
tert-Butylbenzene	ND		125	126		ug/L	101	60 - 140	0	20	
Carbon disulfide	ND		125	122		ug/L	98	38 - 140	0	20	
Carbon tetrachloride	2.8		125	130		ug/L	102	60 - 140	1	20	
Chlorobenzene	ND		125	116		ug/L	92	60 - 140	1	20	
Chloroethane	ND		125	127		ug/L	101	51 - 140	1	20	
Chloroform	9.6		125	131		ug/L	97	60 - 140	0	20	
Chloromethane	ND		125	143		ug/L	115	52 - 140	3	20	
2-Chlorotoluene	ND		125	120		ug/L	96	60 - 140	2	20	
4-Chlorotoluene	ND		125	122		ug/L	98	60 - 140	1	20	
Chlorodibromomethane	ND		125	120		ug/L	96	60 - 140	1	20	
1,2-Dichlorobenzene	ND		125	118		ug/L	94	60 - 140	0	20	
1,3-Dichlorobenzene	ND		125	117		ug/L	93	60 - 140	1	20	
1,4-Dichlorobenzene	ND		125	116		ug/L	93	60 - 140	0	20	
1,3-Dichloropropane	ND		125	123		ug/L	99	60 - 140	1	20	
1,1-Dichloropropene	ND		125	124		ug/L	99	60 - 140	1	20	
1,2-Dibromo-3-Chloropropane	ND		125	120		ug/L	96	60 - 140	2	20	
Ethylene Dibromide	ND		125	126		ug/L	101	60 - 140	2	20	
Dibromomethane	ND		125	123		ug/L	98	60 - 140	0	20	
Dichlorodifluoromethane	ND	F1 *	125	176		ug/L	140	38 - 140	1	20	
1,1-Dichloroethane	ND		125	122		ug/L	98	60 - 140	1	20	
1,2-Dichloroethane	13		125	133		ug/L	96	60 - 140	0	20	
1,1-Dichloroethene	ND		125	111		ug/L	89	60 - 140	0	20	
cis-1,2-Dichloroethene	3.5		125	126		ug/L	98	60 - 140	1	20	
trans-1,2-Dichloroethene	ND		125	118		ug/L	94	60 - 140	1	20	
1,2-Dichloropropane	ND		125	125		ug/L	100	60 - 140	1	20	
cis-1,3-Dichloropropene	ND		125	130		ug/L	104	60 - 140	0	20	
trans-1,3-Dichloropropene	ND		125	125		ug/L	100	60 - 140	1	20	
Ethylbenzene	ND		125	123		ug/L	98	60 - 140	1	20	
Hexachlorobutadiene	ND		125	116		ug/L	92	60 - 140	0	20	
2-Hexanone	ND		625	650		ug/L	104	60 - 140	2	20	
Isopropylbenzene	ND		125	130		ug/L	104	60 - 140	1	20	
4-Isopropyltoluene	ND		125	124		ug/L	99	60 - 140	0	20	
Methylene Chloride	ND		125	124		ug/L	99	40 - 140	0	20	
4-Methyl-2-pentanone (MIBK)	ND		625	691		ug/L	110	58 - 130	0	20	
Naphthalene	ND		125	125		ug/L	100	56 - 140	0	20	
N-Propylbenzene	ND		125	128		ug/L	102	60 - 140	1	20	
Styrene	ND		125	129		ug/L	103	60 - 140	1	20	

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8260B/CA\_LUFTMS - 8260B / CA LUFT MS (Continued)

**Lab Sample ID: 720-68766-1 MSD**

**Matrix: Water**

**Analysis Batch: 193167**

**Client Sample ID: MW-1**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		125	126		ug/L		101	60 - 140	1	20
1,1,2,2-Tetrachloroethane	ND		125	122		ug/L		98	60 - 140	1	20
Tetrachloroethene	120		125	238		ug/L		91	60 - 140	1	20
Toluene	ND		125	115		ug/L		91	60 - 140	1	20
1,2,3-Trichlorobenzene	ND		125	114		ug/L		91	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		125	118		ug/L		94	60 - 140	0	20
1,1,1-Trichloroethane	ND		125	124		ug/L		100	60 - 140	1	20
1,1,2-Trichloroethane	ND		125	127		ug/L		101	60 - 140	0	20
Trichloroethene	26		125	149		ug/L		99	60 - 140	0	20
Trichlorofluoromethane	8.9		125	136		ug/L		102	60 - 140	1	20
1,2,3-Trichloropropane	ND		125	123		ug/L		98	60 - 140	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	9.0		125	126		ug/L		93	60 - 140	0	20
ne											
1,2,4-Trimethylbenzene	ND		125	129		ug/L		103	60 - 140	0	20
1,3,5-Trimethylbenzene	ND		125	128		ug/L		102	60 - 140	0	20
Vinyl acetate	ND		125	142		ug/L		113	40 - 140	1	20
Vinyl chloride	ND		125	142		ug/L		112	58 - 140	3	20
m-Xylene & p-Xylene	ND		125	121		ug/L		97	60 - 140	1	20
o-Xylene	ND		125	123		ug/L		99	60 - 140	2	20
2,2-Dichloropropane	ND		125	123		ug/L		98	60 - 140	2	20
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>MSD %Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene	94		67 - 130								
1,2-Dichloroethane-d4 (Surr)	94		72 - 130								
Toluene-d8 (Surr)	95		70 - 130								

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 720-193131/1-A**

**Matrix: Water**

**Analysis Batch: 193155**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 193131**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Acenaphthylene	ND		4.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Acenaphthene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Fluorene	ND		4.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Phenanthrene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Anthracene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Fluoranthene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Pyrene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Benzo[a]anthracene	ND		5.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Chrysene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Benzo[b]fluoranthene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Benzo[k]fluoranthene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Benzo[a]pyrene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Indeno[1,2,3-cd]pyrene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Benzo[g,h,i]perylene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1

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# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 720-193131/1-A**

**Matrix: Water**

**Analysis Batch: 193155**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 193131**

Analyte	MB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
2-Methylnaphthalene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1
Dibenz(a,h)anthracene	ND		2.0		ug/L		11/24/15 10:00	11/24/15 20:41	1

Surrogate	MB		Limits	Prepared		Dil Fac
	%Recovery	Qualifier		Prepared	Analyzed	
Nitrobenzene-d5	50		11 - 92	11/24/15 10:00	11/24/15 20:41	1
2-Fluorobiphenyl	64		10 - 101	11/24/15 10:00	11/24/15 20:41	1
Terphenyl-d14	89		34 - 128	11/24/15 10:00	11/24/15 20:41	1

**Lab Sample ID: LCS 720-193131/2-A**

**Matrix: Water**

**Analysis Batch: 193155**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 193131**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Naphthalene	40.0	25.6		ug/L		64	12 - 115	
Acenaphthylene	40.0	28.4		ug/L		71	29 - 129	
Acenaphthene	40.0	29.7		ug/L		74	25 - 115	
Fluorene	40.0	30.4		ug/L		76	39 - 115	
Phenanthrene	40.0	32.2		ug/L		81	54 - 115	
Anthracene	40.0	32.0		ug/L		80	54 - 115	
Fluoranthene	40.0	32.6		ug/L		81	65 - 115	
Pyrene	40.0	31.2		ug/L		78	53 - 115	
Benzo[a]anthracene	40.0	30.9		ug/L		77	56 - 115	
Chrysene	40.0	30.8		ug/L		77	50 - 115	
Benzo[b]fluoranthene	40.0	28.6		ug/L		71	50 - 115	
Benzo[k]fluoranthene	40.0	28.7		ug/L		72	60 - 115	
Benzo[a]pyrene	40.0	28.5		ug/L		71	55 - 115	
Indeno[1,2,3-cd]pyrene	40.0	32.7		ug/L		82	49 - 117	
Benzo[g,h,i]perylene	40.0	31.3		ug/L		78	54 - 115	
2-Methylnaphthalene	40.0	26.9		ug/L		67	16 - 115	
Dibenz(a,h)anthracene	40.0	34.1		ug/L		85	47 - 127	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	54		11 - 92
2-Fluorobiphenyl	72		10 - 101
Terphenyl-d14	83		34 - 128

**Lab Sample ID: LCSD 720-193131/3-A**

**Matrix: Water**

**Analysis Batch: 193155**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 193131**

Analyte	Spike Added	LCSD		Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
Naphthalene	40.0	25.1		ug/L		63	12 - 115	2	42
Acenaphthylene	40.0	27.9		ug/L		70	29 - 129	2	40
Acenaphthene	40.0	29.3		ug/L		73	25 - 115	1	40
Fluorene	40.0	30.5		ug/L		76	39 - 115	0	39
Phenanthrene	40.0	32.3		ug/L		81	54 - 115	0	35
Anthracene	40.0	32.3		ug/L		81	54 - 115	1	25
Fluoranthene	40.0	35.5		ug/L		89	65 - 115	9	26

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 720-193131/3-A**

**Matrix: Water**

**Analysis Batch: 193155**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 193131**

**%Rec.**

**RPD**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Pyrene	40.0	32.2		ug/L	80	53 - 115	3	22	
Benzo[a]anthracene	40.0	31.9		ug/L	80	56 - 115	3	24	
Chrysene	40.0	32.0		ug/L	80	50 - 115	4	24	
Benzo[b]fluoranthene	40.0	28.9		ug/L	72	50 - 115	1	31	
Benzo[k]fluoranthene	40.0	29.5		ug/L	74	60 - 115	3	39	
Benzo[a]pyrene	40.0	28.6		ug/L	72	55 - 115	0	23	
Indeno[1,2,3-cd]pyrene	40.0	34.2		ug/L	85	49 - 117	4	19	
Benzo[g,h,i]perylene	40.0	32.3		ug/L	81	54 - 115	3	35	
2-Methylnaphthalene	40.0	26.2		ug/L	66	16 - 115	3	45	
Dibenz(a,h)anthracene	40.0	35.4		ug/L	88	47 - 127	4	35	
<hr/>									
<b>Surrogate</b>	<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
Nitrobenzene-d5	52		11 - 92						
2-Fluorobiphenyl	70		10 - 101						
Terphenyl-d14	88		34 - 128						

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 720-193046/1-A**

**Matrix: Water**

**Analysis Batch: 193031**

**Client Sample ID: Method Blank**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 193046**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		11/23/15 10:35	11/24/15 00:08	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		11/23/15 10:35	11/24/15 00:08	1
<hr/>									
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Capric Acid (Sur)	0.01		0 - 5				11/23/15 10:35	11/24/15 00:08	1
p-Terphenyl	96		31 - 150				11/23/15 10:35	11/24/15 00:08	1

**Lab Sample ID: LCS 720-193046/2-A**

**Matrix: Water**

**Analysis Batch: 193031**

**Client Sample ID: Lab Control Sample**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 193046**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]	2500	2180		ug/L	87	32 - 119			
<hr/>									
<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
p-Terphenyl	100		31 - 150						

**Lab Sample ID: LCSD 720-193046/3-A**

**Matrix: Water**

**Analysis Batch: 193031**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 193046**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics [C10-C28]	2500	1920		ug/L	77	32 - 119	13	35	

TestAmerica Pleasanton

# QC Sample Results

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-193046/3-A

Matrix: Water

Analysis Batch: 193031

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Batch: 193046

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
p-Terphenyl	95		31 - 150

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-193127/1-A

Matrix: Water

Analysis Batch: 193109

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 193127

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50		ug/L		11/24/15 09:54	11/24/15 19:26	1
PCB-1221	ND		0.50		ug/L		11/24/15 09:54	11/24/15 19:26	1
PCB-1232	ND		0.50		ug/L		11/24/15 09:54	11/24/15 19:26	1
PCB-1242	ND		0.50		ug/L		11/24/15 09:54	11/24/15 19:26	1
PCB-1248	ND		0.50		ug/L		11/24/15 09:54	11/24/15 19:26	1
PCB-1254	ND		0.50		ug/L		11/24/15 09:54	11/24/15 19:26	1
PCB-1260	ND		0.50		ug/L		11/24/15 09:54	11/24/15 19:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		19 - 98			
DCB Decachlorobiphenyl	72		10 - 122			

Lab Sample ID: LCS 720-193127/2-A

Matrix: Water

Analysis Batch: 193109

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 193127

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
PCB-1016	4.00	3.55		ug/L		89	40 - 115
PCB-1260	4.00	3.52		ug/L		88	48 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	81		19 - 98
DCB Decachlorobiphenyl	85		10 - 122

Lab Sample ID: LCSD 720-193127/3-A

Matrix: Water

Analysis Batch: 193109

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 193127

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
PCB-1016	4.00	3.17		ug/L		79	40 - 115	11	20	
PCB-1260	4.00	3.43		ug/L		86	48 - 115	2	20	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	68		19 - 98
DCB Decachlorobiphenyl	81		10 - 122

TestAmerica Pleasanton

# QC Association Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## GC/MS VOA

### Analysis Batch: 193167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68766-1	MW-1	Total/NA	Water	8260B/CA_LUFT	
720-68766-1 MS	MW-1	Total/NA	Water	MS	
720-68766-1 MSD	MW-1	Total/NA	Water	8260B/CA_LUFT	
LCS 720-193167/5	Lab Control Sample	Total/NA	Water	MS	
LCS 720-193167/7	Lab Control Sample	Total/NA	Water	8260B/CA_LUFT	
LCSD 720-193167/6	Lab Control Sample Dup	Total/NA	Water	MS	
LCSD 720-193167/8	Lab Control Sample Dup	Total/NA	Water	8260B/CA_LUFT	
MB 720-193167/4	Method Blank	Total/NA	Water	MS	
				8260B/CA_LUFT	
				MS	
				8260B/CA_LUFT	
				MS	
				8260B/CA_LUFT	
				MS	
				8260B/CA_LUFT	
				MS	
				8260B/CA_LUFT	
				MS	

## GC/MS Semi VOA

### Prep Batch: 193131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68766-1	MW-1	Total/NA	Water	3510C	
LCS 720-193131/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-193131/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-193131/1-A	Method Blank	Total/NA	Water	3510C	

### Analysis Batch: 193155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-193131/2-A	Lab Control Sample	Total/NA	Water	8270C	
LCSD 720-193131/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	
MB 720-193131/1-A	Method Blank	Total/NA	Water	8270C	

### Analysis Batch: 193271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68766-1	MW-1	Total/NA	Water	8270C	193131

## GC Semi VOA

### Analysis Batch: 193031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68766-1	MW-1	Silica Gel Cleanup	Water	8015B	
LCS 720-193046/2-A	Lab Control Sample	Silica Gel Cleanup	Water	8015B	
LCSD 720-193046/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	8015B	
MB 720-193046/1-A	Method Blank	Silica Gel Cleanup	Water	8015B	

### Prep Batch: 193046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68766-1	MW-1	Silica Gel Cleanup	Water	3510C SGC	
LCS 720-193046/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 720-193046/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
MB 720-193046/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	

TestAmerica Pleasanton

# QC Association Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## GC Semi VOA (Continued)

### Analysis Batch: 193109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-193127/2-A	Lab Control Sample	Total/NA	Water	8082	193127
LCSD 720-193127/3-A	Lab Control Sample Dup	Total/NA	Water	8082	193127
MB 720-193127/1-A	Method Blank	Total/NA	Water	8082	193127

### Analysis Batch: 193110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68766-1	MW-1	Total/NA	Water	8082	193127

### Prep Batch: 193127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-68766-1	MW-1	Total/NA	Water	3510C	9
LCS 720-193127/2-A	Lab Control Sample	Total/NA	Water	3510C	10
LCSD 720-193127/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	11
MB 720-193127/1-A	Method Blank	Total/NA	Water	3510C	12

# Lab Chronicle

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

**Client Sample ID: MW-1**

**Date Collected: 11/19/15 08:30**

**Date Received: 11/20/15 09:45**

**Lab Sample ID: 720-68766-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		5	193167	11/24/15 23:44	PRD	TAL PLS
Total/NA	Prep	3510C			193131	11/24/15 10:00	NDU	TAL PLS
Total/NA	Analysis	8270C		1	193271	11/27/15 13:51	JZT	TAL PLS
Silica Gel Cleanup	Prep	3510C SGC			193046	11/23/15 10:35	NDU	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	193031	11/23/15 19:42	JXL	TAL PLS
Total/NA	Prep	3510C			193127	11/24/15 09:54	NDU	TAL PLS
Total/NA	Analysis	8082		1	193110	11/24/15 19:59	DCH	TAL PLS

**Laboratory References:**

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

# Certification Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

## Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

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TestAmerica Pleasanton

## Method Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM S	8260B / CA LUFT MS	SW846	TAL PLS
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS

### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

## Sample Summary

Client: PES Environmental, Inc.  
Project/Site: 837 Industrial Road

TestAmerica Job ID: 720-68766-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-68766-1	MW-1	Water	11/19/15 08:30	11/20/15 09:45

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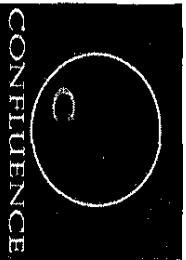
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TestAmerica Pleasanton

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Confluence Environmental, Inc.  
3208 El Camino Ave, Suite 300 #148  
Sacramento, CA 95821  
916-473-8617 - fax  
[www.confluence-env.com](http://www.confluence-env.com)

## Chain of Custody

Page 1 of 1

Project Name: 837 Industrial Rd, San Carlos  
Job Number: P1-151119

TAT: STANDARD 5 DAY 2 DAY 24 HOUR OTHER: 720-68766

Lab: Test America	Address: Pleasanton	Contact:	Phone/ Fax:
Site Address: 837 Industrial Rd, San Carlos	California Global ID No.:	Include EDF w/ Report: Yes	Consultant / PM: PES / Chris Baldassari
Phone / Fax: 415-899-1600	Phone / Fax:	No	* per agreement w/ PES
Sample ID	Time	Date	Matrix
			Soil/Solid
			Water/Liquid
			Air
			Laboratory No.
			No. of Containers
			Unpreserved
			H <sub>2</sub> SO <sub>4</sub>
			HNO <sub>3</sub>
			HCl
			NaOH
			VOC's & TPH-G (8260B)
			TPH-D, TPH-MO (8015M w/ silica gel cleanup)
			PAH's (8270)
			PCB's (8082 w/ 3541 prep*)
			Notes and Comments
720-68766 Chain of Custody			
Sampler's Name: <u>Test America</u>	Relinquished By/Affiliation	Date <u>12/30/15</u>	Accepted By/Affiliation
Sampler's Company: Confluence Environmental		Time <u>12:30</u>	Date <u>12/30/15</u>
Shipment Date:			Time <u>12:30</u>
Shipment Method:			Date <u>12/30/15</u>
Special Instructions: *contact Chris Baldassari for details on PCB method 415-497-2731			
Z-3c			

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Confluence Environmental, Inc.  
3303 El Camino Ave, Suite 300 #148  
Sacramento, CA 95821  
916-760-7641 - main  
916-473-8617 - fax  
[www.confluence-env.com](http://www.confluence-env.com)

## Chain of Custody

Page 1 of 1

**Project Name:** 837 Industrial Rd, San Carlos

**Job Number:** P1-151119

**TAT: STANDARD** 5 DAY 2 DAY 24 HOUR OTHER: 720-68766



Lab: Test America			
Address: Pleasanton			
Contact:			
Phone/Fax:			

Site Address: 837 Industrial Rd, San Carlos			
California Global ID No.:			
Include EDF w/ Report: Yes	No	* per agreement w/ PES	
Consultant / PM: PES / Chris Baldassari			
Phone / Fax: 415-899-1600			

Sample ID	Time	Date	Matrix	Preservative	Requested Analysis	
					Laboratory No.	No. of Containers
MW-1	0930	11/19/15	X	C	Unpreserved	VOC's & TPH-G (8260B)
				C	H <sub>2</sub> SO <sub>4</sub>	TPH-D, TPH-MO (8015M w/ silica gel cleanup)
				S	HNO <sub>3</sub>	PAH's (8270)
				X	HCl	PCB's (8082 w/ 3541 prep*)
				X	NaOH	

Confluence PM: Jason Brown			
Phone / Fax: 916-760-7641 / 916-473-8617			
Confluence Log Code: CESC			
Report to: Chris Baldassari			
Invoice to: PES			



720-68766 Chain of Custody

Sampler's Name:	Relinquished By/Affiliation	Date	Time	Received By/Affiliation	Date	Time
Chris Baldassari	Test America	11/19/15	12:30	John Miller	11/19/15	12:30
Confluence Environmental	Confluence Environmental	11/19/15	10:00	John Miller	11/20/15	09:45
Shipment Date:						
Shipment Method:						

Special Instructions: \*contact Chris Baldassari for details on PCB method 415-497-2731

2.36

## Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 720-68766-1

**Login Number: 68766**

**List Source: TestAmerica Pleasanton**

**List Number: 1**

**Creator: Arauz, Dennis**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## **APPENDIX E**

### **HISTORICAL GROUNDWATER MONITORING RESULTS**

Table 1  
Laboratory Analytical Results of Groundwater Monitoring Well MW-1

Sample ID	Sample Date	Field Point	General Chemistry		Total Petroleum Hydrocarbons, TPH			Polychlorinated Biphenyls, PCBs	Volatile Organic Compounds, VOCs												Polyaromatic Hydrocarbons, PAHs	Metals		
			TDS	pH	TPHg	TPHd	TPHmo		MTBE	CCl4	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	PCE	TCE	CFC-11	CFC-113	Vinyl Chloride	Other VOCs	Zinc	Other Metals	
			mg/L	SU	µg/L	µg/L	µg/L		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MW-1-GW	06/19/12	MW-1	11,000	7.40	200	ND (<52)	ND (<100)	ND (<0.53)	1.2	5.7	14	0.78	19	1.7	6.0	150	49	24	28	1.0	ND (<0.50 to <50)	ND (<0.11)	ND (<20)	ND (<2.0 to <20)
	09/28/12	MW-1	11,000	7.54	230	ND (<50) H	ND (<99) H	ND (<0.49)	0.93	10	17	0.77	18	1.7	5.6	160	44	29	29	1.3	ND (<0.50 to <50)	ND (<0.096)	49	ND (<2.0 to <10)
	12/26/12	MW-1	10,000	7.33	150	ND (<51)	ND (<100)	ND (<0.52) H	1.0	0.89	9.5	0.73	14	1.6	5.3	110	44	16	22	1.1	ND (<0.50 to <50)	ND (<0.10)	39	ND (<2.0 to <10)
	03/25/13	MW-1	10,000	7.25	230	ND (<47)	ND (<94)	ND (<0.47)	1.1	10	19	0.78	22	1.5	6.1	190	47	26	26	1.1	ND (<0.50 to <50)	ND (<0.099)	26	ND (<2.0 to <10)
MW-1A-GW	06/19/12	MW-1	11,000	7.35	200	ND (<52)	ND (<100)	ND (<0.52)	1.3	5.0	14	0.79	18	1.8	5.7	140	49	24	28	1.1	ND (<0.50 to <50)	ND (<0.10)	ND (<20)	ND (<2.0 to <20)
	09/28/12	MW-1	11,000	7.61	230	ND (<50) H	ND (<99) H	ND (<0.49)	0.95	11	17	0.76	18	1.7	5.7	170	44	29	30	1.2	ND (<0.50 to <50)	ND (<0.11)	28	ND (<2.0 to <10)
	12/26/12	MW-1	10,000	NA	150	ND (<47)	ND (<93)	ND (<0.53) H	1.1	0.94	10	0.77	14	1.6	5.5	110	46	16	22	1.0	ND (<0.50 to <50)	ND (<0.095)	37	ND (<2.0 to <10)
	03/25/13	MW-1	11,000	7.25	230	ND (<47)	ND (<94)	ND (<0.48)	1.1	9.70	18	0.79	20	1.5	6.0	190	47	23	26	1.2	ND (<0.50 to <50)	ND (<0.097)	27	ND (<2.0 to <10)
<b>Environmental Screening Levels <sup>(1)</sup></b>																								
U.S. EPA Region 9 RSLs (Tapwater)				NE	NE	NE	0.17 *	12	0.44	0.19	2.4	0.15	340	73	0.11	2	1,300	59,000	0.016	Varies by compound	Varies by compound	4,700 <sup>(2)</sup>	Varies by compound	
Maximum Contaminant Levels for drinking water Federal, U.S. EPA, MCLs				NE	NE	NE	0.5	NE	5	NE	NE	5	7	70	5	5	NE	NE	2	Varies by compound	Varies by compound	5,000 <sup>(3)</sup>	Varies by compound	
Maximum Contaminant Levels for drinking water State, California, MCLs				NE	NE	NE	0.5	13	0.5	NE	5	0.5	6	6	5	5	150	1,200	0.5	Varies by compound	Varies by compound	NE	Varies by compound	
Table F-1a ESLs for groundwater, where groundwater IS a current or potential source of drinking water				100	100	100	0.014	5	0.5	70	5	0.5	6	6	5	5	NE	NE	0.5	Varies by compound	Varies by compound	81	Varies by compound	
Table F-1b ESLs for groundwater, where groundwater IS NOT a current or potential source of drinking water				500	640	640	0.014	1,800	4.8	170	47	100	25	590	63	130	NE	NE	3.8	Varies by compound	Varies by compound	81	Varies by compound	

**Table Notes:**

**General:**

µg/L: Micrograms per liter

mg/L: Milligrams per liter

NA: Not analyzed

SU: Standard units

ND (<1): Not detected at or above the laboratory reporting limit

TDS: Total dissolved solids

pH: potential Hydrogen

\*: Polychlorinated Biphenyls (low risk)

H: Sample was prepped or analyzed beyond the specified holding time

TPH: Total petroleum hydrocarbons

TPHg: Gasoline range organics (C5-C12) by EPA Method 8260B.

TPHd: Diesel range organics (C10-C28) by EPA Method 8015B with silica gel cleanup.

TPHmo: Motor oil range organics (C24-C36) by EPA Method 8015B with silica gel cleanup.

VOCs: Volatile organic compounds (VOCs) by EPA Method 8260B.

SVOCS: Semivolatile organic compounds (SVOCS) by EPA Method 8270C.

PCBs: Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

MTBE: methyl-tert-butyl ether

PCE: Tetrachloroethene

TCE: Trichloroethene

cis-1,2-DCE: cis-1,2-Dichloroethene

1,2-DCA: 1,2-Dichloroethane

1,1-DCE: 1,1-Dichloroethene

1,1-DCA: 1,1-Dichloroethane

CCl4: Carbon tetrachloride

CFC-11: Trichlorofluoromethane

CFC-113: 1,1,2-Trichloro-1,2,2-trifluoroethane

**Detailed:**

**Environmental Screening Levels**

Environmental Screening Levels (ESLs) were taken from the San Francisco Bay Region, Regional Water Quality Control Board (RWQCB-SF):

"Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater," Interim Final, November 2007, updated May 2008, updated February 2013.

ESLs for TPHg correspond to TPH (gasolines)

ESLs for TPHd correspond to TPH (middle distillates)

ESLs for TPHmo correspond to TPH (middle distillates)

Table F-1a ESLs correspond to groundwater where groundwater IS a current or potential source of drinking water.

Table F-1b ESLs correspond to groundwater where groundwater IS NOT a current or potential source of drinking water.

Maximum Contaminant Levels and Regulatory Dates for Drinking Water U.S. EPA vs California (MCLs November 2008)

US EPA Region 9 RSLs, Regional Screening Levels (RSLs) published by the Region 9, United States Environmental Protection Agency (USEPA, October 2004, updated November 2012):

RSLs provided are chemical-specific concentrations for individual contaminants in tapwater that may warrant further investigation or site cleanup.

**2 Zinc and Compounds**

Zinc result is from National Secondary Drinking Water Regulations

**3**

**APPENDIX F**

**WASTE DISPOSAL DOCUMENTATION**

## NON-HAZARDOUS WASTE

## NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of
3. Generator's Name and Mailing Address <i>PES 837 Industrial Rd, San Carlos CA</i>				
4. Generator's Phone ( )		6. US EPA ID Number	A. State Transporter's ID	
5. Transporter 1 Company Name <i>Confluence Env.</i>			B. Transporter 1 Phone <i>916 760 7841</i>	
7. Transporter 2 Company Name		8. US EPA ID Number	C. State Transporter's ID	
9. Designated Facility Name and Site Address <i>ISP 1105 Airport Rd. Rio Vista CA</i>		10. US EPA ID Number	D. Transporter 2 Phone	
11. WASTE DESCRIPTION  a. Non HAZ Purgwater		12. Containers No.	13. Total Quantity	14. Unit Wt./Vol.
b.		1	Poly	8.4
c.				
d.				
G. Additional Descriptions for Materials Listed Above		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name		Signature _____ Date _____		
Printed/Typed Name		Signature _____ Date _____		
Printed/Typed Name		Signature _____ Date _____		
Printed/Typed Name		Signature _____ Date _____		
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name		Signature _____ Date _____		



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GROUNDWATER MONITORING,  
CAP INSPECTIONS, AND  
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837 INDUSTRIAL ROAD  
SAN CARLOS, CALIFORNIA**

**JANUARY 4, 2016**

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	Attention: Mr. Mike Field	
1 Copy	Permits Section Land Division (LND-4-2) U.S. EPA - Region 9 75 Hawthorne Street San Francisco, California 94105	2
	Attention: Ms. Frances Wicher	
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